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AMERICAN NURSERYMAN

The Nurseryman's Forte: To Make America More Beautiful and Fruitful

APRIL 15, 1956 PERIODICALS

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The Nurseryman's Forte: To Make America More Beautiful and Fruitful

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Forms for the May 1 issue will close Friday, April 13.

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AMERICAN NURSERYMAN

F. R. KILNER
Editor and Publisher

FRED H. KILNER
Managing Editor

Editorial

GARDEN SHOWS

One consequence of the residential building boom is an increased public interest in the spring garden and home shows. Not only are there more of them, with larger attendance, but the exhibits are studied with closer attention, particularly by budding gardeners and new homeowners.

They seek ideas and suggestions in design and materials, for it is much easier for the beginner to copy or adapt than to develop original plans from books or some other source.

Recognizing this whetted public appetite, probably more nurserymen have this year supplied exhibits to these shows than participated in the past. The spectacular gardens of earlier exhibitions may be less numerous, but examples of house facades, foundation plantings, patios, garden nooks, rose or perennial plots and the like are more frequently to be seen and more instructive to the public.

Aid to nurserymen who planned to exhibit at these shows was presented in this magazine at the beginning of the year in an article on the early forcing of shrubs into flower for show purposes. In this issue are briefly described nurserymen's exhibits at the principal shows held this spring, to furnish ideas to others who may contemplate exhibiting at garden shows another season.

These reports are not inclusive of all the exhibits, nor are all the shows in lesser cities covered. Space would not permit. But the number of events and of trade entries described should demonstrate the extent and quality of the nurserymen's contributions and indicate the importance of this form of education in gardening to the public.

DRESSING UP THE HOME

Since comment appeared on this page upon the inception of "operation home improvement" earlier in the year, the movement has gathered momentum. Not only have chambers of commerce and construction trade associations lent it support, but or-

ganizations and corporations in allied fields have joined in its promotion. Newspaper publications and home magazines can be expected to create more public interest from initial steps already undertaken.

The American Association of Nurserymen has joined those giving publicity to this project. In a recent supplement to the Publishers' Auxiliary, going to 11,000 newspapers, one page of clip sheet material on landscaping as a phase of home improvement was provided by the A. A. N.

Others contributing to this 16-page newspaper-size release were cement, plywood, electrical, gas appliance, air-conditioning, floor covering, steel, roofing, woodwork, insulating, paint and other similar corporations or industry associations.

All of these recognize that new homes and new automobiles are not going to siphon off the public's extra dollars and that there is great room for improvement in the older homes all over the country, of which a large proportion is outmoded by present-day standards. In this era of high employment and prosperity it would be wisdom and sound economy to bring these up to date.

Certainly the majority of home plantings need renovation, and in the proposed "operation home improvement" it is to be hoped nurserymen will have a prominent part. Here is an opportunity to "Plant America."

STRETCHING THE SEASON

When the days become warm and foliage expands on trees and shrubs, nurserymen of the bare-root era begin to think the spring selling season is over and tardy gardeners believe it is too late to plant aught but annuals.

But in this era of canned stock, balled and burlapped material and package plants there is a great deal that can be sold at this time and many additions that may be made to the garden before summer comes and some still after that season has arrived.

One of the most important discoveries in the nursery field in the past decade has been that the planting season could be stretched to a remarkable degree. There were advocates of summer planting earlier, but they were little heeded. Under the stress of exigent demand in the postwar home building boom, nurserymen adopted as commonplace practices those things at which they

had previously scoffed. They continued to plant into the summer and into the winter in order to catch up with their orders and appease their customers. They developed new practices and adapted those advocated earlier in order to do so.

The public is not fully aware of these new practices or even of the forms in which stock is now sold in order that buyers may prolong their garden making. This should be remembered in continuing the advertising program of the retail nurseryman or the garden center as the season advances.

If the nurseryman has the prepared stock on hand, timely advertising will bring in the tardy gardeners to buy the canned roses and other shrubs and evergreens, the stock that can still be sold balled and burlapped and the packaged or field-dug perennials, not to mention the annuals in packs or flats.

Such stretching the season in the sale of nursery stock does not take into account the sales, continuing through the summer, of insecticides, fertilizers, tools and miscellaneous supplies for the garden. Where these are handled, the job of sales making never stops.

MORE THAN DOLLARS

To those newcomers to the nursery industry who expect to find it profitable because of the current home building boom, a word may be said about the merchandise they will handle. It is different from hats or hardware. It grows and lives, increasing in value in the customers' hand instead of depreciating.

More important, it has interest and enjoyment not only for the gardener who is the ultimate buyer, but also for the propagator, grower, landscape planter and retailer. Hence, their lifelong absorption in their business, their knowledge of nature from experience and observation.

Some newcomers have had an amateur hobby and knowledge of horticulture. But those who have been purely of a commercial mind would do well to enhance their familiarity with plants, from reading in books, from observation in nurseries and from visits to arboreta or gardens that afford instruction. They will find more must be invested in this business, and there is more to be derived from it, than just dollars.



Semiformal Terrace Garden Designed by Thomas Carroll & Sons at the National Capital Flower Show

Spring Flower Shows

Large Attendance and More Nurserymen's Participation Noted

SPRING flower shows undoubtedly whet the public's gardening and home planting appetite. That nurserymen are ably assisting in this promotional work is clear from the following reports of the major flower shows and the accompanying illustrations of some of the displays set up by trade members at this season's exhibitions. Attendance records indicate a continuance of the high attracting power of these horticultural events.

NATIONAL CAPITAL SHOW

A record crowd of more than 125,000 flower enthusiasts from the Middle-Atlantic area jammed the huge National Guard armory at Washington, D. C., March 3 to 9, to view the colorful and lavish spring preview provided by the sixth annual flower and garden show, formally opened by Mrs. Dwight D. Eisenhower.

Once again, the focal point of the 7-day show, designed by landscape architect Boris V. Timchenko, was a huge fountain, with colored spotlights playing on five streams of water that shot up to 40 feet in the air. The fountain this year was incorporated into a formal garden of the Louis Hahn & Son firm, Pittsburgh, Pa. Four entrances, which led to the fountain area, were planted on each side with pink hybrid rhododendrons and pink azaleas.

Florida Display

The Paul Revere trophy, emblematic of the best garden in the show, was given to the exhibit of the

Florida Nurserymen and Growers Association for its garden designed for outdoor living. This lush, tropical, patio garden had a bamboo shelter shaded by a large coconut palm on the left, backed by several varieties of colorful foliage plants. In the foreground on the right, an orange tree, laden with fruit, supplied a novel focal point. Variegated croton plants along the right-hand side led to the patio which had a flooring of processed pine blocks. Colorfully plumed birds in large cages were suspended from the bamboo shelter to complete the tropical setting.

The gardens of the show were arranged in a radial effect around the large fountain, which was the focal point of the over-all design. Large fir trees were placed at the outer edges of the pattern and arranged to tie in and anchor several of the smaller gardens. The accent in garden design appeared to stress formal and semi-formal lines, as contrasted with other years, when the informally designed gardens tended to dominate the exhibits.

Formal Terrace Garden

First prize for a garden in the 750 square foot category was awarded to A. Gude Sons Co., Rockville, Md., for a formal, raised terrace garden. The fieldstone terrace featured a low stone bench, with large plantings of pink and white azaleas and two specimen boxwood plants on each end of the terrace area against a background of glossy, evergreen magnolias. The facing of



Indica azaleas inside a low stone wall formed the border for this formal garden, a prize-winner at the Cleveland flower show for Kurt O. Laubinger & Sons, Inc., Macedonia, O.

the terrace was done with red brick.

Second prize in the same category was awarded to J. H. Small & Sons, Inc., Washington, D. C., for a raised terrace planting in a strong, modern design. The terrace, of slate, held informal groupings of modern garden furniture and was served by two entrances. The front entrance was planted on each side with bands of deep pink, light pink and white geraniums, edged with ivy and pachysandra plants. At the left of the terrace, a large hawthorn tree, underplanted with light purple azaleas and white begonias, served as an accent point. In the border at the back of the terrace, groupings of annuals and hybrid lilies provided color.

Gustin Gardens, Inc., Rockville,

Md., won first prize for a small formal garden in the 300 to 450 square foot category. Focal point was a small stone statue, with a turf path leading to it on each side. Directly behind the statue was a flowering cherry tree, with a bamboo screen fence for privacy. White azaleas were clustered in formal beds on each side of the statue, with two specimen broad-leaved evergreen shrubs in the background. Beds of white hyacinths and dwarf boxwood outlined the turf paths. Color accents were provided by red azaleas on the extreme ends of the background planting.

A semiformal terrace garden by Thomas Carroll & Sons, Rockville, was awarded second prize in the smaller garden classification. This

garden featured a raised terrace backed by a split sapling fence, with a huge fir tree on the left side of the terrace and a stone bench at the extreme right. The tree was underplanted by a gradual curve of pink rhododendrons and azaleas, which led to the bench. The planting on the right of the bench was of white and pink azaleas and rhododendrons. The foreground of the design featured three slate steps leading to the terrace, with a triangular bed of white hyacinths at the extreme left and a planting of tulips at the right, under a flowering apple tree.

Chambers Flower Center, Washington, D. C., was given a third-prize certificate for a small, semiformal garden with a pixie statue overlooking a small pool as the focal point. The upper portion of the pool was planted with deep red and light pink azaleas. The lawn area, which dominated the foreground of the design, was edged with pink azaleas, with low-growing yellow chrysanthemums at the corners.

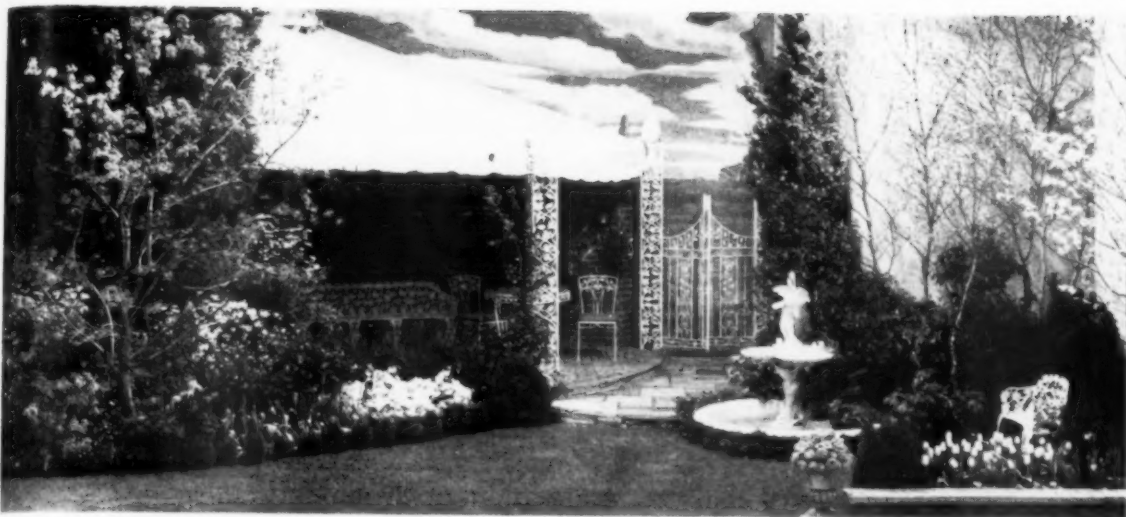
Stock Bros., Inc., Bethesda, Md., was given an honorable mention in the small garden classification for a semiformal pool garden. A raised bed, faced with flagstone, overlooked a circular pool and was planted with taxus, boxwood, azalea and pachysandra plants. A washed pebble area provided an interesting foreground.

Outstanding Use of Boxwood

Royal Oak Farms, Marion, Va., was awarded a first prize for the outstanding garden using boxwood as the principal plant. The firm exhibited a formal raised boxwood garden, centered by a bed of roses, with the bed edged with low-growing box-



Kelsey-Highlands Nursery, East Boxford, Mass., earned a first prize and a gold medal at the New England flower show with this naturalistic garden that featured hardy low azaleas under large pines and about a pool.



Semiformal spring garden that won a gold medal in the small garden class for Daybreak Nurseries, Inc., Westport, Conn., at New York's International flower show last month.

wood and backed by magnolia and specimen boxwood plants. A huge, berried holly tree was at the extreme end of the formal garden, with a low antique sundial in the foreground. In the same competition, J. H. Burton, Hyattsville, Md., was awarded a second prize for a raised terrace garden in formal design, with two plant wells in the foreground of the weathered brick terrace.

Hill's Camellia Gardens, Arlington, Va., won a first prize in the camellia garden class, with a formal planting of flowering camellias of several varieties, with the entire planting edged with azaleas.

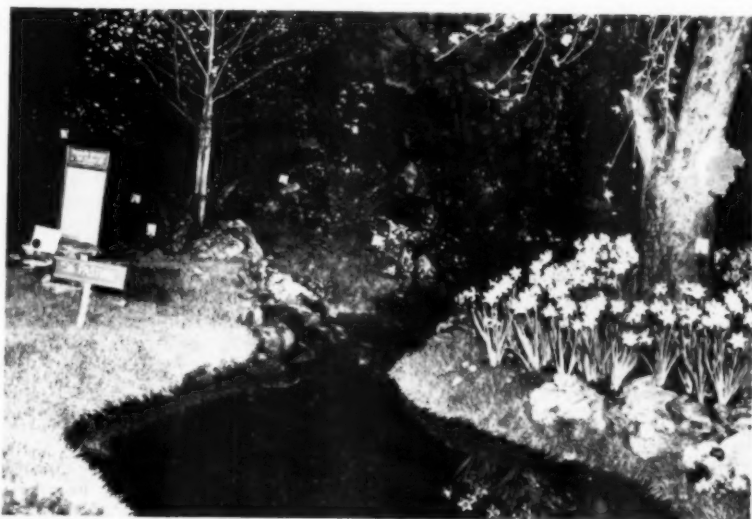
Naturalistic Mountain Scene

A. I. Heimlich, Woburn, Mass., was recipient of a special award, for a naturalistic mountain waterfall garden that featured a wide variety of colorful natural plant materials along a rushing waterfall that spilled into a pool. A simulated mountain backdrop completed the illusion of a naturalistic waterfall setting.

Other garden award winners included Stadler Nursery, Silver Spring, Md., for a small semiformal modern garden; Behnke Nurseries, Beltsville, Md., for a formal pansy garden, and Conard-Pyle Co., West Grove, Pa., for a formal rose garden that featured the firm's newest varieties.

CLEVELAND SHOW

At Cleveland, O., this year's home and flower show, again held in the city's Public Auditorium, was titled "Spring's Dress Rehearsal." The affair ran from March 3 to 11, with the total attendance estimated at about 230,000 persons.



Winner of a gold medal at the Connecticut flower show at West Hartford was this naturalistic hillside planting, designed by Farmington Nurseries & Tree Experts, Avon, Conn.

Competitive gardens were entered by eight Greater Cleveland growers and, as usual, were divided into small and large classes. First prize in the large garden class was won by Fred Schneider & Sons Co., Rocky River. More than 1,000 azaleas were used in the garden, arranged in formal beds in front of an attractive stone wall.

Second prize in the large garden class went to Stony Acres Gardens, Bedford. This garden attractively filled a kind of area (a long and narrow space) that presents a problem to many home gardeners. A wall was used to create a split-level garden planted with pink geraniums. Riverside ageratum, tulips, Kurume azaleas and Japanese arborvitae were

among the materials used to form the border of this garden. Pots of coleuses, vincas, geraniums and dracaenas formed an entrance to a walk leading to a patio roofed with redwood, with redwood tables and benches.

Receiving honorable mention in the large garden class was the entry of C. Merkel & Sons Co., Mentor. White lilacs formed the background for a planting of Alaska azaleas and English holly. Two large beds of Irene geraniums bordered with variegated English holly circled two flowering dogwood trees.

First prize in the small garden class was awarded to Kurt O. Laubinger & Sons, Inc., Macedonia.

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Tips for Better Landscapes

Planting of Parking and Public Areas

By Clarence E. Lewis

Long Island Agricultural and Technical Institute, L. I., N. Y.

It is always interesting to learn why people write on certain topics. In this case, an odd incident prompted at least the beginning of this article. While standing near the parking area of a local village hall, I noticed a lady having some difficulty in maneuvering her car, first off the main street into the entrance drive and then along this drive. I knew that something was bound to happen, and it did. At the right turn into the public parking area, the car climbed the curb and proceeded across the small planting area and eventually into a wide parking space.

Waiting until the lady had departed, I photographed the tire tracks, as can be seen in illustration A. It is rather obvious that this occurrence was not the first of its kind, since the poor defenseless yew looks somewhat battered. What to do under such circumstances is always a problem, because no matter how wide the opening is made, there will be those who unintentionally take short cuts. This, of course, does not happen every day, or even every other day, but it does occur more often than one might think. It is all right to follow standards when planning curved entrances, but when one is dealing with a public area it is best to expect the worst of people and

then plan accordingly. In other words, it should be considered that everybody is a poor driver.

I doubt that it makes any difference what type of plant is used—a yew, which is part of the planting of illustration A; wintergreen barberry, with its vicious thorns; a flat juniper, or any other type of plant—the same problem would exist. Probably the only inhibiting factor would be a stone or concrete post, or possibly a low wall with a planting back of it. Plants do not always encourage drivers to go around them, but bricks or stones are a stronger deterrent.

Fence Barriers

Single-rail fences may sometimes be the answer, particularly if they are connected to a taller 2-rail fence as shown in illustration B. The fence need not be left bare, but may be partially planted. Public parking areas should never be screened so that blind areas result. If a fence is employed, it should be left open enough so that the shortest person may always be able to see entering automobiles.

Illustration C shows another treatment of a parking area where the taller hedge makes the parked car less conspicuous to the person who trudges along the nearby walk and

the lower hedge provides good vision to the driver who is backing or driving out. An evergreen hedge has many advantages over a deciduous one, the most important being that screening is provided in winter as well as summer. In this case arbovitae has been used, but many other narrow-leaved evergreens are equally well suited. They include dwarf Hinoki false cypress (*Chamaecyparis obtusa nana*), Hicks, Hatfield and capitata yews, as well as other forms of yew. These may be used in a mixed planting or by themselves.

Combination Hedges

An interesting combination of broad-leaved evergreens for a graded hedge is the little-leaved Japanese holly (*Ilex crenata microphylla*) for the taller hedge area, and convex-leaved holly (*Ilex crenata convexa*) for the lower hedge area. The little-leaved type can be used for both parts of the hedge, if so desired. *Ilex opaca* (American holly) or *Ilex aquifolium* (English holly) for the taller section and either Burford holly (*Ilex cornuta burfordi*) or round-leaved holly (*Ilex crenata rotundifolia*) for the lower hedge are also appealing to the eye, but more expensive.

It is not wise to place the hedge



Illustration A—The tire mark photographed indicates that the landscape man must consider inexperienced car drivers when he is planting parking areas.



Illustration B—Corner plantings can be guarded by using double-rail and single-rail fences, provided they are in keeping with the surrounding landscape.



Illustration C—A graduated hedge, screening parked cars from view yet allowing visibility to drivers entering or leaving, is a safe and attractive means to landscape parking areas.



Illustration D—Wide planting beds are instrumental in providing safety and a neat landscape appearance to such public places as parks and playground areas.

flush with the area where cars will be parked, but better to leave an area of at least two feet so that less damage will be done to the hedge. There should be a locust log, or low curb at the edge of the parking space, with a ground cover used between the log or curb and the hedge. Even then, an occasional driver will turn his car too sharply and not only go over part of the ground cover and curb, but possibly nip the end of the hedge. The more you watch people operate cars, particularly where it becomes necessary to do a little maneuvering, the more amazed you become. Some are poor drivers; others have no respect for someone else's property.

Safety is the most important consideration, regardless of budget; maintenance is secondary but vital, particularly to the man in charge. This is true no matter how many people frequent the area. One accident is too many, no matter whether it is serious or not.

Grade and Drainage

Two other considerations are grade and drainage. When turns are involved, or areas that may require the use of car brakes, they should be given special attention. The grade should be such that water never settles there, for if it does, ice forms during the winter period and driving becomes hazardous. Drainage is not only vital on the surface of the parking area but also beneath, so that unnecessary cracking will not occur in the parking surface. Parking areas constructed over land with good drainage are not only longer lasting but present a surface that provides better and safer driving and walking.

Public playgrounds and parks also present many problems, among which are parking facilities that are in close proximity to walks, paths and play areas. When space is limited, this condition sometimes becomes a necessity. The area between a parking field and another section should be definitely separated. Illustration D shows how this can be accomplished. Several mental barriers prevent people from walking back and forth from one area to another. The guide rails initiate the idea, and the bed planting of Regel's privet and Oriental plane trees emphasizes it even more. A narrow planted section would stop some people from cutting through, but many children and adults still practice the rule that a straight line is the shortest distance between two points. Such a bed should be at least eight to 10 feet wide, and an even greater width is more helpful.

Thorny Plants

When the barrier beds are planted with thorny plants, such as Japanese barberry, rugosa rose and dwarf flowering quince, there is less tendency for people to cut through. The only difficulty in using thorny plants is that they require more maintenance and look poorer than Regel's privet, Pfizer juniper, Jap garden juniper and some types of yew. I doubt that ground covers would influence people to any extent.

If avenues or walks of travel are of a broad nature, and they should be, then separating beds should be of comparable width or they may have little value. There are people who will stop at nothing if they decide that they are going to cut across an area. Plants, fences nor

walls stop them. I remember a case where someone went through a section that was made up of hawthorns, red cedars, roses and fire thorn. This does not seem reasonable, but it is actually true, probably to the regret of the trespassers. The larger and more diversified the crowd is, the more problematical becomes the situation. It is difficult to fight some eccentricities of the human race, but barriers do discourage many!

Protection of Trees

Trees in public areas cannot all be located in grass panels or lawn areas but must occasionally be used as parts of broad walks. This is true in public areas where shade is needed to protect those who may walk or rest along the way. The elm in illustration E has survived such a growing condition for many years. You will notice that bricks are used

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Illustration E—Tree plantings in the walks and paths of public parks should be well marked.



Evergreens and petunias in landscape plan for Miller Brewing Co. Administration building annex match the main building planting.

Wins Landscaping Award

A pleasant and practical blending of stone terraces and lawn, flower, shrub and tree plantings won for the Miller Brewing Co., Milwaukee, Wis., an industrial landscaping award in the third annual national contest sponsored by the American Association of Nurserymen. The award was presented at the winter meeting of the Wisconsin Nurserymen's Association at Milwaukee. Last year marked the brewing firm's completion of its first 100 years of operation in this country.

Today, approximately 2,500 square yards of the Miller property is terraced with lannon stone or landscaped with sod and evergreens, compared with a small plot of grass, 30x40 feet, the extent of company

landscaping nine years ago. Landscaping the site serves a twofold purpose—the beautifully planted grounds are suited to their residential surroundings, and at the same time, proper landscape engineering techniques help to prevent soil washing, a considerable problem in the hilly terrain where the brewery is located.

Terraced Hills

Focal point in the landscape is the Administration building, a modern, 2-story structure situated at the western foot of a steep hill. Tons of lannon stone terrace the slope, dotted with evergreens and shrubs and nearly 1,000 colorful perennials spot-planted in specially prepared soil



Rear of Administration building of Miller Brewing Co., Milwaukee, Wis., showing employees' entrance and part of an extensive stone terrace with perennials, shrubs and evergreens in soil pockets.

pockets, as pictured here. At the base of the hill is an attractive vine-covered brick retaining wall. Geraniums and petunias in wall boxes and beds lend color in season to the Administration building.

Turf covers the hill area north and east of the Administration building, and another terrace between the building and a parking lot is planted with evergreens and flowers. Workers laid the sod in 1952 and 1953. They secured the sod to the bank with wooden pegs, and most of the work was done from a temporary scaffold setup.

Across the street is a steep, wide, lawn-carpeted hill planted with arborvitae, blue spruce, Douglas fir, Black Hills spruce, Japanese yew, juniper and Austrian pine. Cutting the grass on the steep slope is a 2-man job. One man guides the mower along the width of the hill, while the other, stationed at the top of the hill, holds onto a rope attached to the mower handle and prevents the equipment from sliding downhill.

Landscaping Problems

Under the hill the Miller caves, used for storage before the days of mechanical refrigeration, are now a museum, where visitors register for tours. Landscaping the hill presented considerable difficulty. The first work—clearing trees, brush and debris; filling; grading; sodding, and planting—was done in 1948, only to be ruined by a heavy storm the following summer, which caused a landslide of tons of topsoil, sod and plantings. Addition of planking and posts driven into the ground in weak areas, as well as the use of drain tile at the top of the hill, has prevented a repetition of the catastrophe.

Still another treatment of a hill problem was to leave a natural effect. A steep hill acquired in 1953 required erosion prevention and the addition of color and beauty. Nearly 1,000 heavy runner-type rooting shrubs were planted, among them Indian currant, snowberry, lilac and dogwood. For color, honeysuckle, forsythia, cotoneaster and others were added. All the healthy native trees, shrubs and ground covers were retained.

Plants Hold Soil

On the lower, more steeply angled slopes, 400 yards of bluegrass sod were laid. Alpine currant was added to provide low, heavy growth. To keep maintenance at a minimum, sturdy plants able to exist in poor soil were used. Maintenance has

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Some Facts about

Plastic Underground Sprinkler Systems

By William B. Harris

This is a report of the findings of a nurseryman who is also acquainted with various industrial problems. This nurseryman feels strongly that plastic underground sprinkler systems can be installed profitably during the slow summer months by nurserymen. He also feels that they offer a great opportunity for the industry to add importantly to its gross sales and to its net profit.

Many nurserymen have probably noted, as the writer has, the slowly growing sale of plastic underground sprinkler systems. The sale of these systems started about three years ago. Many companies entering the field are not now in business. The survivors, most of them departments of strong corporations, are now in the process of making plans for rather extensive promotion of their products during the coming spring and summer. Their market studies indicate an enormous demand. But in most instances this promotion will take the form of the sale of do-it-yourself kits that will take care of lawn areas from 600 to 1,600 square feet.

These do-it-yourself sprinkler kits obviously are candidates for the catalogs of the mail-order nursery trade and for space in garden sales centers of local landscape nurserymen. Garden maintenance companies will also undoubtedly sell them. However, these kits are completely inadequate for the thousands of really good customers who would like to buy such systems to irrigate, if not all their grounds, at least an important part of them. Custom installations run from \$100 up, compared to about a maximum do-it-yourself price of \$40 on the package systems. Plastic pipe and fittings can be bought separately from most good manufacturers.

Profitable Operation

Last year on Long Island I discovered that two beginning nurserymen (with one helper) sold at installation price almost \$25,000 worth of these systems in three months. After paying for the parts and the helper, these two men retained a gross profit of nearly \$15,000 for their three months' work and the

use of their truck during that time. The fact is these beginning nurserymen more than doubled their capital in this short period on an after tax basis.

This job (as noted) was not done selling kits; it was done by quoting and selling complete custom sprinkler installations, which ran up to \$500 and more installed per system. These young fellows were fortunate to find a manufacturer having national standing, who told them what could and what could not be done with this kind of equipment.

It is impossible to state accurately that the number of plastic systems installed by these two Long Islanders exceeded the number of underground metal systems that have been sold on Long Island over the past five years, but it is a good guess they did. Metal systems are used rather extensively in the arid regions of the country, but they are expensive, costing the homeowner anywhere from 15 to 25 cents and up per square foot installed. Not many such systems can be sold to people in moderate circumstances. Furthermore, no metal system can be considered a truly permanent installation insofar as material is concerned. Soil acids

set up electrolysis, which eats into almost any kind of pipe.

Contrasting Cost

On the other hand, the new plastic custom systems mentioned above were installed at a price ranging from 5 to 6½ cents per square foot, a rather remarkable discount, one would say, from the metal jobs. Moreover, it is a good guess that these plastic installations will outlast the house. They are made of materials that cannot corrode or disintegrate; freezing hurts them not at all. Sprinkler heads, of course, have to be properly leveled, but the plastic pipe need not be buried with precision. The pipe is merely jammed into a slit in the ground made with a spade, and the sod is tamped back into place.

In investigating the problems of selling and installing underground plastic sprinklers, I discovered a few facts that probably are of importance to any nurserymen interested, as I am, in entering this business for the purpose of building profit and volume in summertime. The first fact has to do with the amount of water required by any given number of sprinklers on a sprinkler line. This

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WEST VIRGINIA CONVENTION SPEAKERS AND OFFICERS



Front row, left to right, H. Phillip Berthy, extension forester, West Virginia University; Al Peters, Connor & Amos, Inc., Charleston, president, West Virginia Nurserymen's Association, and Marvin Snyder, chief chemist, West Virginia department of agriculture; back row, left to right, Jack Edgell, vice-president, West Virginia Nurserymen's Association; Waldo Craig, state entomologist and secretary, West Virginia Nurserymen's Association, and Roger Pease, assistant agricultural economist, West Virginia University.

Southern Shade Tree Meeting

By Noel B. Wysong

The annual meeting of the Southern chapter of the National Shade Tree Conference was held March 26 and 27, at the Hotel Patten, Chattanooga, Tenn. The meeting was attended by 72 members and guests representing various tree service companies, public utilities, educational institutions and other organizations interested in problems pertaining to the planting and care of trees and shrubs in the southern states.

Excellent weather conditions, pleasant surroundings, the well-arranged display of tools, equipment and supplies exhibited by arboricultural supply dealers and manufacturers and the papers presented in the education sessions combined to make this conference one of the most successful in the history of the organization. One of the highlights of the

meeting was the bus tour of scenic and historic Point park and rock city on Lookout mountain. The experience of looking over the beautiful city of Chattanooga from the 2,100-foot elevation of Lookout mountain will be long remembered by the conference delegates, as will the beauty and trails of rock city.

Election of Officers

At the business session, held Monday evening, officers for the coming year were elected as follows: President, Stephen Pugh, forester of the Southern Bell Telephone Co., Atlanta, Ga.; vice-president, O. J. Andersen, Trees, Inc., Houston, Tex., and secretary-treasurer, Thomas D. Cobb, Wilson Tree Co., Ashville, N. C. Elected for a 2-year term to the board of governors of both the Southern chapter and the National

Shade Tree Conference were G. W. Landis, Davey Tree Expert Co., Ninety Six, S. C., and Jerry B. Baker, Baker Tree & Landscape Service, West Charleston, W. Va.

A brief report on the progress made to date in the campaign to raise funds for the production of a film on arboriculture was given by Noel B. Wysong, chairman of the National Shade Tree Conference arboriculture film committee. As was explained, the proposed film will be in color and sound, primarily for use on television programs but available also for use at small group meetings. It will be an educational film designed to acquaint the public with approved arboricultural practices and to stimulate interest generally in the planting and care of shade trees and ornamental shrubs. Time-

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CONVENTION CHAIRMEN

The executive committee of the 1956 convention of the American Association of Nurserymen met with Executive Vice-president Richard P. White and Vice-president Clyde H. Stocking along with the subcommittee chairmen at the Statler hotel, Los Angeles, Calif., Thursday, February 23.

Others in attendance were Martin Usrey, David Cunningham, Mr. and Mrs. O. L. Weeks, Mr. and Mrs. Willis Stribling, James Meadows, Frank Pollock, F. C. Tomlinson, James Gibbs, Harry Marks, Manfred Meyberg, John Beach, Mr.

and Mrs. J. A. Armstrong and Dave Stump.

General Chairman J. Awdry Armstrong has announced that as a result of the meeting a tentative program for the convention has been outlined.

Disneyland Trip

James Gibbs, chairman of the junior nurserymen's program, outlined a full schedule of events for the teen-agers attending the convention. Included in this program is a trip to Disneyland, the \$17,500,000 fantasy land produced by Walt Disney. Also included is a trip to Marineland with a picnic on the beach near Santa

Monica. A junior dance and other activities are also planned.

A ladies' lunch and fashion show is planned for the main ballroom of the new Beverly-Hilton hotel in Beverly Hills. Mrs. Ruth Armstrong, chairman of the ladies' program, announces that there will be ample time to visit before and after the luncheon in the shops in the Beverly-Hilton and surrounding area.

The past presidents' banquet promises to be an outstanding event. The entire facilities of the famous theater-restaurant, Moulin Rouge, will be taken over for the past presidents' banquet.



Convention chairmen for 1956 A. A. N. convention meet: Left to right, Willis Stribling, vice-chairman, executive committee; James Gibbs, chairman, junior program; James Meadows, chairman, trade exhibits; Tommy Tomlinson, member of executive committee; Frank Pollock, chairman, registration; Harry Marks, vice-chairman, entertainment committee; Manfred Meyberg, chairman, entertainment committee; John Beach, chairman, transportation; R. P. White, executive vice-president of A. A. N.; J. Awdry Armstrong, general chairman; Dave Stump, secretary, executive committee; Martin Usrey, treasurer, executive committee; Dave Cunningham, chairman, welcoming; Clyde Stocking, vice-president, A. A. N., and director of region VI; Mrs. Willis Stribling, member of ladies' committee, and Mrs. and Mr. O. L. Weeks, cochairmen, decorations committee; not in attendance at time picture was taken, Mrs. J. Awdry Armstrong, chairman, ladies' committee.

Operating a Garden Center

Chapter 2. Merchandise to Offer and Its Display

By John J. Pinney

What merchandise should be offered for sale in the garden store? It has already been pointed out that packaged nursery stock is best displayed there, as it soon becomes bedraggled unless kept dry. If vegetable plants and bedding plants are available, they can be carried in season. (The term "bedding plants" usually refers to annual flowering plants such as petunias, marigolds, salvias, asters, etc.)

Bedding and vegetable plants used to be grown in flats and were then displayed in the same flats. The merchant dug the plants out of the flats as they were sold, wrapping them in paper with some of the soil clinging to the roots. Although most of these sales were small, considerable time was required to fill orders in this manner. If a shop did much business in vegetable and bedding plants, many salespersons were needed to fill orders at peak times, yet the volume of business was small for the amount of work involved.

Paper Cup Containers

One garden shop operator who grows his own plants has a unique solution for the problem. He still grows his plants in flats, but instead of digging them as they are sold, he has them dug in advance and packed in moss in waxed paper cups, 13 plants to the cup, but sold as a dozen. The cups have his name, address and

an attractive design printed on them in bright colors. They measure $3\frac{3}{8}$ inches across at the top, $2\frac{5}{8}$ inches at the bottom and $3\frac{3}{4}$ inches deep, are labeled and placed in rows on tables. Each row of cups has a picture and description of the variety in it.

Another innovation that this plantsman introduced was a carry-out box or tray made of corrugated paper board about 10x12 inches and three inches deep. The customer, upon entering the bedding plant area, picks up a carry-out box, places his selections upon it, pays for them and carries them to his car. When this plan was first instituted, there were misgivings in regard to the customers' response, but it has proved so successful that it is now also used for selling potted plants. More plants are sold, with fewer salespersons required.

Plant Packs

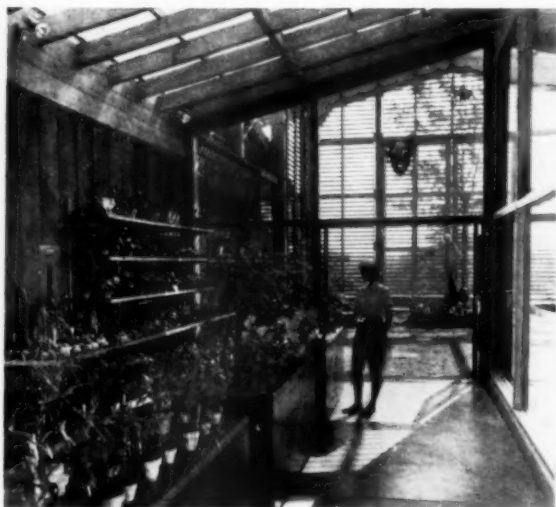
A new kind of container for merchandising vegetable and bedding plants has been developed in recent years. This is a small, shallow, fiber or aluminum box with sloping sides and drainage holes in the bottom. It is called a pack and is designed to hold 12 plants. The plants are grown in these containers, which are then sold as units, thus eliminating the need for removing the plants. They are easy to carry, and the customer



Display of plant-related gifts at the Siebenthaler Co. salesroom at Dayton, O. Display cases on left are designed so merchandise is visible from both inside and outside the store.

can keep the plants in good condition in them for a considerable time if it is not convenient for him to set them out at once. Use of the packs results in larger unit sales and reduces the amount of work required to make sales.

Grass, flower and vegetable seeds should be on sale in the garden shop. Flower and vegetable seeds are available on a consignment or guaranteed sale basis. At the end of



Views inside Siebenthaler garden center at Dayton, O. Left, potted plants arranged on counters and shelves for most economical use of space; note translucent roof to provide more light for plants. Right, open displays of small packaged garden supplies in main salesroom with glassed-in conservatory beyond for display of potted plants.



Top, potted plant display in garden store of H. G. Hastings Co., Atlanta, Ga.; bottom, Hastings' Garden Store seed display in specially constructed racks.

the season the wholesale house picks up the unsold seeds and the merchant pays only for the seeds he has sold.

The seeds, put up in brightly lithographed envelopes, are displayed in racks supplied by the wholesale house. Some garden centers prefer to make their own seed display racks to conform to their general display plan. Well-planned packaged seed displays are attractive and colorful.

Grass and Lawn Seeds

Grass or lawn seeds are also available in attractive packages from wholesale houses, but usually not on a guaranteed sale basis; they are sold outright to the merchant by the wholesaler. The garden center operator should familiarize himself with the best varieties of grasses for lawns in his area. Reliable sources of information are the state agricultural colleges or experiment stations, which can make recommendations for specific areas. Mixtures which meet these specifications can then be purchased from the wholesale seed houses.

Most states have laws governing the purity and viability of seeds, especially grass seeds. The garden center operator should conform to the provisions of the laws of his own state.

Flower bulbs usually are offered for sale in garden stores. They fall

into two general groups: Those that are planted in the fall and those that are set out in the spring. Fall bulbs include tulips, hyacinths, crocuses, daffodils, scillas, campanulas, snowdrops and some of the lilies; spring bulbs include cannas, dahlias, gladioli, caladiums, tuberose and lilies. All these bulbs come in various sizes or grades. There is little difference in cost between the grades, but considerable difference in their performance. The best grades and quality not only insure customer satisfaction, but greater profit for the garden shop.

Potted Plants

Some garden shops carry a line of potted plants for which there is a year-round market. Wholesale growers are catering to the garden shop market by supplying a wide assortment of foliage plants and flowering house plants. If there is no conservatory in connection with the garden center, special equipment will be needed for the care of potted plants in the garden shop. Plants displayed on the tables with waterproof tops and raised edges can be watered without injury to the tables and with no water dripping onto the floor.

A special piece of equipment that will enable one to display a large number of potted plants in a small floor area consists of a series of shelves one above the other, each

shelf being a little narrower than the one below it. The shelves must be protected with metal and have slightly raised edges to hold water. These shelves can be arranged against a wall, or they can be built to be used as an island display.

For the convenience of garden center customers, the garden shops should carry a line of products that are essential for the care of plants. The markup on such merchandise is not so great as on nursery stock, but the merchandise is nonperishable, and much of it is sold between planting seasons when the income is most needed. Included in the following list are the most important garden supplies:

- Fertilizers
- Plant foods
- Peat moss
- Leaf mold
- Soil conditioners
- Insecticides
- Fungicides
- Weed killers
- Garden hose and nozzles
- Lawn sprinklers
- Sprinkler cans
- Hand tools
 - Rakes
 - Hoes
 - Shovels
 - Spading forks
 - Trowels
 - Hedge shears
 - Grass shears
 - Hand sprayers

If there is room for display, it is well to carry more than one line of such items as fertilizers, plant foods, peat moss, insecticides and fungicides. Most of these are well advertised, and some customers will prefer one brand over another. The garden center operator will do well to carry the most widely advertised brands to cash in on the demand created by such advertising.

There is danger of stocking up with too many items of merchandise that are not especially related to gardening. Such merchandise is likely to find a slow sale in garden centers and therefore prove unprofitable. If merchandise is not related to gardening it probably is best not to invest in it.

Power Equipment

A controversial subject in garden center merchandising is that of power equipment, such as lawn mowers, garden cultivators and tractors. The question of whether or not to handle them is one that the garden center operator will decide for himself after due consideration. Unquestionably there is a big demand for power

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Landscaping Demonstration in Florida

The Florida Nursery & Landscape Co., Leesburg, Fla., on March 20 completely landscaped a new home in a typical subdivision as a demonstration project. The plan was developed primarily to show how much correct landscaping can do to transform a house, built exactly like a host of others in the same area, into a home. A second purpose was to show spectators some of the principles of good planting and the importance of having a good ground plan before going ahead with any planting.

The landscaping work began at 7:30 a. m. and was finished at 5:30 p. m. Dining and living terraces, service area, walls and walks were constructed; front lawn and recreation area lawn were graded and sodded; shrubs and flowering plants were put in, and tree-moving equipment was used for planting larger trees. Moving pictures were taken of the work, including films for TV and newsreels. Bleacher seats and refreshments were provided for spectators. An estimated 4,000 to 5,000 persons visited the project during the course of the day.

The house, one of many in the Delray subdivision, Leesburg, is situated on a corner lot at an angle to the property lines. The landscape firm made the front lawn area larger than is usual and kept the planting simple and out of the center of the lawn for ease in maintenance. Existing pines and a group of oak trees were utilized in the ground plan.

A low hedge planted at one front



Standard home unit in Leesburg, Fla., subdivision before being completely landscaped in a project conducted by the Florida Nursery & Landscape Co.

corner serves to protect the grounds from traffic on the curbless street, and taller plantings toward the rear of the grounds provide an attractive view from windows at that side of the house. Bauhinia trees and azaleas were planted at the other front corner to provide an attractive setting as one approaches the house from that direction. Citrus trees were planted both to screen the carport and to take advantage of available space, to avoid subtracting from the living area. Low ground cover and low shrubs were used in the area between entrance walk and porch where a grass plot would be difficult to maintain.

The living and dining terraces were paved with concrete blocks and constructed at nearly the ground floor level, affording two levels to the grounds and so adding interest to

the environment. The dining terrace was roofed over with plastic, to let in light but to provide protection from rain. Broad, shallow steps were built from terraces to walks and the recreation lawn.

The recreation lawn and terraces were screened from the street by a podocarpus hedge and tall shrubs, permanent plantings which eventually will afford perfect privacy to the whole area at that side of the house and in the rear. Melaleuca trees behind the foreground shrubs will make an attractive sky line view from house and terraces. Fast-growing silk oaks were planted to provide shade for the dining terrace.

At the rear of the house, convenient to the kitchen, a paved service area was constructed. A stepping-stone walk was laid from the gate of

[Continued on page 74]



Subdivision home after being landscaped in a demonstration project by firm at Leesburg, Fla., showing terrace construction and planting around one end and rear of building.

New Control Unit Developed for Intermittent Misting of Cuttings

By Curtis May and Edward HacsKaylo

The intermittent application of a fine mist of water is advantageous in rooting cuttings of elms. However, some difficulties were experienced in experiments with available control equipment because of electrolysis of wires at the wet contact points. The action of the unit described here depends upon the alternate evaporation from and the absorption of water by a hollow porous clay globe.

The control unit, pictured here, consists of a hollow porous clay globe (commonly known as a Livingston atmometer), a stopper of rubber or cork, a piece of copper or nichrome wire, a U-shaped piece of glass tubing and a piece of glass tubing with a wire sealed into one end and of sufficient size to fit as a cap over one end of the U-shaped tube.

Construction of Device

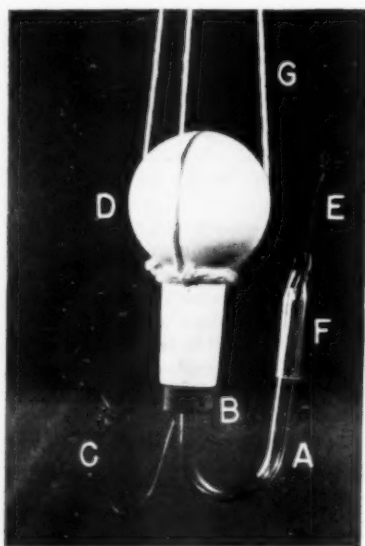
The U tube (A) is fitted tightly into the 1-hole stopper of rubber or cork (B). A second hole is made through the stopper with a needle, and then a short piece of copper or nichrome wire (C) is passed through the hole. The stopper with glass tube and wire inserted is pushed into the neck of the hollow clay globe (D). The wire inside the clay globe forms one contact of the electrical circuit. A similar wire (E) sealed into the glass cap (F) that slips over the exposed end of the U tube is the other contact point. The contact points (C) and (E) are connected with an electronic relay circuit which controls the solenoid valve that opens and closes the water-supply line. The relay circuit device is placed at a convenient location outside the mist chamber.

The control unit is suspended by three cotton cords (G) attached to a pipe above the level of the misting nozzles. During operation the lower parts of the cord are constantly wet, but the upper parts, which are above the mist, remain sufficiently dry to act as a nonelectrical conductor. If the device is grounded, it will not function properly.

The clay globe is boiled in water

The authors of this article, Curtis May and Edward HacsKaylo, are pathologist and physiologist, respectively, horticultural crops research branch, agricultural research service, United States Department of Agriculture, Beltsville, Md.

to remove all air from the wall. After it is full of water and free of air, the globe is held with the open end up, and the cork or rubber stopper is inserted. It is essential to prevent the trapping of air inside the clay globe or in the U tube. Entrapped air will prevent proper functioning of the device. The level of the water in the U tube may be adjusted to any desired height by adding a few drops or by absorbing any excess with a small piece of paper inserted into the tube. However, the



Mist control unit. Letters are explained in the text.

adjustment of the water level in the tube is automatic. In the mist chamber the level of the water in the U tube will rise until contact is made with the wire in the cap, or it will lower by evaporation from the clay globe until contact is broken.

Relay Action

Water evaporates from the surface of the globe when the mist is turned off and is absorbed by the globe while misting is in progress. As water evaporates from the clay globe, the level of water in the glass U tube (A) gradually falls below the tip of the wire sealed in the glass cap, since no water enters the U tube except through its connection with the clay globe. When, as a result of evaporation loss from the outer surface of

the globe, the level of the water in the U tube falls below the tip of the wire sealed in the glass cap (F), electrical contact is broken and misting begins. When enough water has been absorbed by the clay globe to raise the level of water in the U tube to the tip of the wire, electrical contact is made and misting ceases. The rate of evaporation from the outer surface of the globe depends upon the temperature and humidity of the surrounding atmosphere and determines the frequency of misting.

The end of the wire sealed in the cap deteriorates gradually at its point of contact with the water, but this does not affect the operation of the unit for several months. The water in the U tube contacts the wire at a higher level as the wire disintegrates. The wire pushed through the cork or rubber stopper may also disintegrate slowly. This wire must be examined occasionally to make certain that it extends beyond the stopper into the neck of the clay globe.

Water that adheres to the inside wall of the U tube and extends above the observable meniscus conducts electric current sufficiently to activate the apparatus if the wire in the cap touches it. The wire sealed in the cap must be adjusted so that it does not touch the inner wall of the U tube. A small wedge of wood may be used to adjust the position of the wire. The wedge is placed between the outer wall of the U tube and the inner wall of the cap at the proper place to adjust the wire to the desired position.

The water in the U tube may discolor as the contact wires disintegrate. The apparatus should be cleaned about once a week and the wires adjusted if necessary. Always disconnect the unit from the source of current before adjusting it. The cotton cord by which the apparatus is suspended will deteriorate slowly. It should occasionally be tested for strength and changed if necessary.

If the spray fails to shut off when contact is made between the water in the U tube and the wire in the cap, replacement of a tube in the relay circuit may correct the difficulty. It is advisable to have extra tubes available.

This apparatus has been used with satisfactory results for about six months in the greenhouse at the plant industry station, Beltsville, Md., to control intermittent misting of cuttings of American elm, peach, catalpa, poinsettia, carnation and firethorn, all of which rooted satisfactorily.

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WHOLESALE SURPLUS LIST

Salable Stock for Spring, 1956, Plantings

BROAD-LEAVED EVERGREENS

	100 rate each
60 <i>Euonymus radicans</i> , 12 to 15 ins.	\$ 0.75
300 <i>Euonymus radicans</i> carrierel,	
12 to 15 ins.	.75
350 15 to 18 ins.	.90
200 18 to 24 ins.	1.15
100 <i>Euonymus radicans coloratus</i> ,	
12 to 15 ins.	.60
70 15 to 18 ins.	.80
300 <i>Euonymus radicans vegetus</i> ,	
12 to 15 ins.	1.00
500 15 to 18 ins.	1.30
280 18 to 24 ins.	1.80
1500 <i>Hedera helix baltica</i> , 3-in. pots.	.40
500 2 1/4-in. pots	.20
5000 <i>Pachysandra terminalis</i> ,	
2-yr., pot-grown	.22
4000 (\$85.00 per 1000) 2-yr., field-grown	.09 1/2
1000 <i>Vinca</i> , Bowles variety, 3-in. pots.	.30
2000 2-yr., field-grown	.40

HEDGES

488 <i>Berberis thunbergii</i> , 3-yr., 9 to 12 ins.	.15
3000 (\$210.00 per 1000) 12 to 18 ins.	.25
1500 (\$300.00 per 1000) 18 to 24 ins.	.35
450 2 to 2 1/2 ft.	.45
3350 <i>Ligustrum amurens</i> , 12 to 18 ins.	.12
3250 (\$200.00 per 1000) 2 to 3 ft.	.20
1000 (\$250.00 per 1000) 3 to 4 ft.	.30
400 <i>Ligustrum ibolium</i> , 12 to 18 ins.	.10
900 (\$150.00 per 1000) 18 to 24 ins.	.20
1500 (\$200.00 per 1000) 2 to 3 ft.	.25
2500 (\$250.00 per 1000) 3 to 4 ft.	.30
100 <i>Ligustrum ibota</i> , 2 to 3 ft.	.20
200 4 to 5 ft.	.30
3000 <i>Ligustrum ovalifolium</i> ,	
(\$100.00 per 1000) 18 to 24 ins.	.12
5000 (\$160.00 per 1000) 2 to 3 ft.	.18
2300 (\$250.00 per 1000) 3 to 4 ft.	.30
2000 <i>Ligustrum regelianum</i> ,	
(\$300.00 per 1000) 15 to 18 ins.	.35
2000 (\$400.00 per 1000) 18 to 24 ins.	.45
2000 2 to 2 1/2 ft.	.50
6000 <i>Rosa multiflora</i> , cuttings, jumbo	.07

HARDY VINES

600 <i>Ampelopsis engelmannii</i> , 2-yr., No. 1.	.35
280 <i>Ampelopsis quinquefolia</i> , 2-yr., No. 1	.30
73 2-yr., No. 2.	.25
800 <i>Ampelopsis tricuspidata</i> , 2-yr., No. 1	.45
100 <i>Bignonia (campsis) radicans</i> ,	
2-yr., No. 1.	.55
320 <i>Celastrus orbiculatus</i> , 2-yr., No. 1.	.45
285 <i>Celastrus scandens</i> , 2-yr., No. 1.	.45
230 <i>Clematis henryi</i> , 2-yr., No. 1.	.90
185 <i>Clematis Mme. E. Andre</i> , 2-yr., No. 1	.90
100 <i>Clematis paniculata</i> , 2-yr., No. 1.	.35
700 <i>Lonicera halliana</i> , 2-yr., No. 1.	.30
2000 (\$180.00 per 1000) 3-in. pots.	.20
100 <i>Lonicera sempervirens magnifica</i> ,	
2-yr., No. 1.	.40
150 <i>Lonicera hebeli</i> , 2-yr., No. 1.	.50
300 <i>Polygonum auberti</i> , 2-yr., No. 1.	.50

DECIDUOUS ORNAMENTAL TREES

30 <i>Acer dasycarpum</i> , 1 1/2 to 1 3/4-in. cal.	5.00
40 1 3/4 to 2-in. cal.	6.00
30 2 to 2 1/2-in. cal.	8.00
30 <i>Acer dasycarpum wieri</i> ,	
1 1/2 to 1 3/4-in. cal.	5.00
27 1 3/4 to 2-in. cal.	6.00
32 2 to 2 1/2-in. cal.	9.50
300 <i>Acer platanoides</i> , branched, 6 to 8 ft.	3.25
400 1 to 1 1/4-in. cal., 8 to 10 ft.	4.00
140 <i>Acer schwedleri</i> , 1 1/4 to 1 1/2-in. cal.	8.00
280 1 1/2 to 1 3/4-in. cal.	10.00

DECIDUOUS ORNAMENTAL TREES (Cont'd.)

	100 rate each
30 <i>Acer rubrum</i> , 1 1/4 to 1 1/2-in. cal.	5.50
30 1 1/2 to 1 3/4-in. cal.	7.50
100 <i>Betula alba</i> , 6 to 8 ft.	2.75
100 8 to 10 ft.	3.50
130 <i>Betula laciniata pendula</i> , 6 to 8 ft.	3.00
60 8 to 10 ft.	4.75
50 <i>Betula papyrifera</i> , 5 to 6 ft.	2.25
20 6 to 8 ft.	3.50
100 8 to 10 ft.	4.50
20 1 1/4 to 1 1/2-in. cal., 10 to 12 ft.	6.25
30 2 1/4-in. cal., 10 to 12 ft.	10.00
20 <i>Betula alba pyramidalis</i> , 8 to 10 ft.	5.00
50 <i>Chinese Chestnut</i> , 2 to 3 ft.	1.75
70 3 to 4 ft.	2.25
40 4 to 5 ft.	3.00
100 <i>Catalpa bungei</i> , 2-yr., heads.	
4 1/2 to 3 ft.	2.00
200 <i>Cornus florida</i> , B&B, 3 to 4 ft.	3.50
350 4 to 5 ft.	4.00
100 <i>Cornus florida rubra</i> , B&B, 2 to 3 ft.	3.35
350 3 to 4 ft.	5.00
500 4 to 5 ft.	7.50
50 <i>Crataegus cordata</i> , 5 to 6 ft.	5.50
60 6 to 8 ft.	7.00
20 <i>Fraxinus americana</i> , 8 to 10 ft.	3.35
80 10 to 11 ft.	5.00
56 1 1/2 to 1 3/4-in. cal.	5.00
44 <i>Gleditsia triacanthos</i> , 8 to 10 ft.	3.35
100 1 1/2 to 1 3/4-in. cal.	4.35
20 <i>Gleditsia triacanthos inermis</i> ,	
8 to 10 ft.	4.50
100 1 to 1 1/4-in. cal., 10 to 12 ft.	5.50
20 <i>Gymnocladus</i> (Coffee tree), 5 to 6 ft.	3.00
30 <i>Halesia tetrapetala</i> , 2 to 3 ft.	.85
70 3 to 4 ft.	1.25
30 <i>Malus atrosanguinea</i> , 3 to 4 ft.	1.00
50 4 to 5 ft.	1.75
20 <i>Malus Doigo</i> , 3 to 4 ft.	1.00
50 4 to 5 ft.	1.10
100 5 to 6 ft.	1.25
30 <i>Malus eleyi</i> , 4 to 5 ft.	1.65
100 5 to 6 ft.	1.50
40 6 to 7 ft.	2.00
100 <i>Malus Hopy</i> , 4 to 5 ft.	1.25
60 5 to 6 ft.	1.75
100 <i>Malus Bechtel</i> , 18 to 24 ins.	.75
80 2 to 3 ft.	1.35
40 3 to 4 ft.	1.65
140 4 to 5 ft.	2.35
70 7 to 8 ft.	5.00
20 <i>Malus Niedzwetzkyana</i> , 2 to 3 ft.	.85
50 3 to 4 ft.	1.00
20 4 to 5 ft.	1.65
50 <i>Malus adamsi</i> , 2 to 3 ft.	.85
38 <i>Malus arnoldiana</i> , 2 to 3 ft.	.85
90 3 to 4 ft.	1.00
20 <i>Malus scheideckeri</i> , 2 to 3 ft.	.85
70 <i>Malus spectabilis</i> , 3 to 4 ft.	1.00
15 <i>Morus alba</i> , 1 1/4 to 2-in. cal.	
8 to 10 ft.	5.00
20 2 to 2 1/4-in. cal., 10 to 12 ft.	6.00
75 <i>Oxydendrum arboreum</i> , 2 to 3 ft.	2.35
500 <i>Populus nigra italica</i> , 5 to 6 ft.	.45
500 6 to 8 ft.	.60
500 8 to 10 ft.	.85
140 <i>Populus nigra italica</i> , heavy,	
8 to 10 ft.	1.50
35 heavy, 1 1/4 to 1 1/2-in. cal.	2.15
75 <i>Prunus serrulata Kwanzan</i> , 7 to 8 ft.	5.00
40 <i>Prunus triloba</i> , 6 to 8 ft.	5.00
50 <i>Quercus rubra</i> (borealis),	
1 1/4 to 1 1/2-in. cal.	7.50
100 <i>Salix blanda</i> , 6 to 8 ft.	1.35
200 <i>Salix niohe</i> , 5 to 6 ft.	1.25
130 6 to 8 ft.	1.50
200 <i>Ulmus pumila</i> , branched, 6 to 8 ft.	1.50

DECIDUOUS ORNAMENTAL SHRUBS

200 <i>Acanthopanax</i> (Aralia), 18 to 24 ins.	
330 3 to 4 ft.	
45 <i>Althaea</i> (Rose of Sharon)	
<i>anemoneflora</i> , double pink,	
2 to 3 ft.	
40 <i>Banner</i> , double white, 2 to 3 ft.	
100 <i>Jeanne d'Arc</i> , double white,	
2 to 3 ft.	
200 <i>Lucy</i> , double red, 2 to 3 ft.	
250 <i>paconiflora</i> , double pink, 2 to 3 ft.	
100 <i>Amelanchier canadensis</i> , 3 to 4 ft.	
4 to 5 ft.	
35 <i>Aronia melanocarpa</i> , 18 to 24 ins.	
77 2 to 3 ft.	
67 3 to 4 ft.	
70 <i>Azalea calendulacea</i> , 18 to 24 ins.	
150 <i>Azalea poukhanensis</i> , 10 to 12 ins.	
200 12 to 15 ins.	
180 15 to 18 ins.	
200 12 to 15 ins.	
180 15 to 18 ins.	
270 18 to 24 ins.	
488 <i>Berberis thunbergii</i> , 3-yr., 9 to 12 ins.	
2500 (\$210.00 per 1000) 3-yr.,	
12 to 18 ins.	
1500 (\$300.00 per 1000) 3-yr.,	
18 to 24 ins.	
450 3-yr., 2 to 2 1/2 ft.	
2000 <i>Berberis atropurpurea</i> , 9 to 12 ins.	
1000 12 to 18 ins.	
1000 18 to 24 ins.	
2 to 2 1/2 ft.	
55 <i>Berberis thunbergii minor</i> ,	
12 to 15 ins.	
40 15 to 18 ins.	
100 <i>Buddleia Charming</i> , 2-yr., No. 1.	
170 <i>Buddleia de France</i> , 2-yr., No. 1.	
110 <i>Callieria purpurea</i> , 12 to 18 ins.	
18 to 24 ins.	
350 2 to 3 ft.	
190 3 to 4 ft.	
40 <i>Calycanthus floridus</i> , 18 to 24 ins.	
55 12 to 18 ins.	
30 <i>Caragana arboreasens</i> , 18 to 24 ins.	
70 2 to 3 ft.	
100 3 to 4 ft.	
100 4 to 5 ft.	
24 5 to 6 ft.	
55 <i>Cephalanthus occidentalis</i> , 2 to 3 ft.	
170 <i>Clethra alnifolia</i> , 12 to 18 ins.	
150 <i>Chionanthus virginicus</i> , 18 to 24 ins.	
35 2 to 3 ft.	
20 <i>Cornus alba baileyi</i> , 2 to 3 ft.	
24 3 to 4 ft.	
110 <i>Cornus alba sibirica</i> , 12 to 18 ins.	
300 18 to 24 ins.	
400 2 to 3 ft.	
740 3 to 4 ft.	
100 <i>Cornus paniculata</i> (racemosa),	
2 to 4 ft.	
80 4 to 5 ft.	
180 <i>Cornus stolonifera lutea</i> , 18 to 24 ins.	
365 2 to 3 ft.	
280 3 to 4 ft.	
63 4 to 5 ft.	
23 <i>Cotoneaster acutifolia</i> , 3 to 4 ft.	
30 <i>Cotoneaster divaricata</i> , 18 to 24 ins.	
200 2 to 3 ft.	
160 3 to 4 ft.	
230 <i>Cotoneaster horizontalis</i> , pots,	
6 to 9 ins.	
75 9 to 12 ins.	
420 <i>Cydonia japonica</i> , 12 to 18 ins.	
500 18 to 24 ins.	
163 2 to 3 ft.	

NEW ENGLAND MEETING

An executive committee meeting of the New England Nurserymen's Association was held March 14, with all members and two guests present.

A report was made by the treasurer, who said that, thanks to revenue from the program and exhibits, the winter meeting will break even financially.

Chick Hogan, C. R. Burr & Co., Inc., Manchester, Conn., outlined tentative plans for the summer meeting, when his firm will be host. The meeting will be held during the week of August 12.

It was voted to accept the invita-

tion of Warren Richards to hold the next executive meeting at Clinton Nurseries, Clinton, Conn., June 20. Membership applications should be sent in so that they can be voted on at that time.

After discussion of a site for the 1957 convention of the N. E. N. A., a motion was made by Robert Kempenaar, Newport, R. I., and seconded by Al Angel, Newport, that the convention be held at the Hotel Kenmore, Boston, February 5 to 7, 1957. The motion passed by unanimous vote.

It was moved by Charles Godin, Westfield, Mass., and seconded by

Robert Kempenaar that cost of exhibit space next year be \$35 and the number of spaces be limited to 20, with no spaces in the main ballroom. This was passed. Prospective exhibitors were asked to notify Jack Shore, Chelsea, Mass.

A request was made at the winter meeting that a new classification of honorary members be added to the roster. Because the N. E. N. A. is primarily a regional and not a state group, the general opinion was that it would be better to honor persons doing outstanding work for the association by presenting them with a plaque or other suitable symbol for

DECIDUOUS ORNAMENTAL SHRUBS (Continued)

	100 rate each		100 rate each		100 rate each		
<i>Cydonia japonica rubra</i> , 12 to 18 ins.	\$0.50	350	<i>Lonicera korolkowi</i> zabell.	70	<i>Salix purpurea</i> nana, 2 to 3 ft.	\$0.50	
2 to 3 ft.	.65		18 to 24 ins.	\$0.40	210	<i>Spiraea Anthony Waterer</i> , 9 to 12 ins.	.35
<i>Desmodium</i> , 2-yr.	.50	400	2 to 3 ft.	.50	400	12 to 15 ins.	.35
<i>Deutzia lemoinei</i> , 12 to 18 ins.	.45	800	3 to 4 ft.	.60	50	18 to 24 ins.	.60
2 to 2 1/2 ft.	.85	320	<i>Lonicera tatarica alba</i> , 2 to 3 ft.	.40	35	<i>Spiraea arguta</i> , 18 to 24 ins.	.40
<i>Deutzia Fride of Rochester</i> .	.50	320	3 to 4 ft.	.50	75	2 to 3 ft.	.50
18 to 24 ins.	.30	148	4 to 5 ft.	.60	100	2 to 4 ft.	.65
2 to 3 ft.	.40	200	<i>Lonicera tatarica rosea</i> , 18 to 24 ins.	.35	70	<i>Spiraea foebell</i> , 12 to 18 ins.	.30
3 to 4 ft.	.50	630	2 to 3 ft.	.40	540	18 to 24 ins.	.40
<i>Elaeagnus angustifolia</i> , 2 to 3 ft.	.35	800	3 to 4 ft.	.50	550	2 to 2 1/2 ft.	.50
<i>Euonymus alatus</i> , 12 to 18 ins.	.85	88	4 to 5 ft.	.60	172	<i>Spiraea thunbergi</i> , 18 to 24 ins.	.40
<i>Euonymus alatus compactus</i> .		70	<i>Lonicera tatarica rubra</i> , 18 to 24 ins.	.30	510	2 to 3 ft.	.50
12 to 18 ins.	1.00	330	2 to 3 ft.	.40	185	3 to 4 ft.	.60
18 to 24 ins.	2.00	875	3 to 4 ft.	.50	50	<i>Spiraea trichocarpa</i> , 2 to 3 ft.	.60
<i>Euonymus yedoensis</i> , 18 to 24 ins.	.40	130	<i>Lonicera fragrantissima</i> , 18 to 24 ins.	.35	35	<i>Spiraea vanhouttei</i> , 2 to 3 ft.	.50
2 to 3 ft.	.35	78	<i>Lonicera maecki</i> , 2 to 3 ft.	.50	200	3 to 4 ft.	.50
4 to 5 ft.	.65	40	Photinia villosa, 2 to 3 ft.	.60	55	<i>Stephanandra flexuosa</i> , 12 to 18 ins.	.25
<i>Forsythia Lynwood Gold</i> .		100	3 to 4 ft.	.65	130	18 to 24 ins.	.45
12 to 18 ins.	.35	90	<i>Philadelphus coronarius</i> , 12 to 18 ins.	.25	70	2 to 3 ft.	.60
18 to 24 ins.	.40	330	18 to 24 ins.	.30	120	<i>Symphoricarpos chenaulti</i> , 2 to 3 ft.	.35
2 to 3 ft.	.50	650	2 to 3 ft.	.40	190	3 to 4 ft.	.45
4 to 5 ft.	.60	290	3 to 4 ft.	.50	200	<i>Symphoricarpos racemosus</i> .	.30
<i>Forsythia ovata</i> , 12 to 18 ins.	.25	500	<i>Philadelphus coronarius aureus</i> .	.70	100	12 to 18 ins.	.35
18 to 24 ins.	.50	250	12 to 18 ins.	.50	665	2 to 3 ft.	.40
2 to 3 ft.	.60	50	18 to 24 ins.	.60	400	3 to 4 ft.	.50
4 to 5 ft.	.70	27	<i>Philadelphus Enchantment</i> , 2 to 3 ft.	.50	250	<i>Symphoricarpos vulgaris</i> , 18 to 24 ins.	.35
<i>Forsythia spectabilis</i> , 18 to 24 ins.	.30	100	3 to 4 ft.	.60	600	2 to 3 ft.	.50
2 to 3 ft.	.45	95	4 to 5 ft.	.70	420	3 to 4 ft.	.60
3 to 4 ft.	.60	125	<i>Philadelphus lemoinei</i> , 18 to 24 ins.	.40	100	<i>Syringa chinensis</i> , 2 to 3 ft.	.55
4 to 5 ft.	.80	325	2 to 3 ft.	.50	100	3 to 4 ft.	.65
<i>Forsythia Spring Glory</i> , 18 to 24 ins.	.35	85	3 to 4 ft.	.60	26	<i>Syringa persica alba</i> , 3 to 4 ft.	.75
2 to 3 ft.	.45	260	<i>Philadelphus Virginal</i> , 12 to 18 ins.	.30	90	<i>Syringa villosa</i> , 18 to 24 ins.	.40
3 to 4 ft.	.55	700	18 to 24 ins.	.40	165	2 to 3 ft.	.50
4 to 5 ft.	.75	800	2 to 3 ft.	.50	29	3 to 4 ft.	.55
<i>Forsythia suspensa</i> , 18 to 24 ins.	.35	140	3 to 4 ft.	.60	500	<i>Syringa vulgaris</i> , 18 to 24 ins.	.40
2 to 3 ft.	.45	114	<i>Philadelphus virginialis Albare</i> .	.50	29	2 to 3 ft.	.55
3 to 4 ft.	.60	70	2 to 3 ft.	.60	360	<i>Syringa vulgaris alba</i> , 18 to 24 ins.	.50
<i>Hamamelis virginiana</i> , 2 to 3 ft.	.60	43	<i>Philadelphus virginialis Bouquet Blanc</i> .	.40	500	2 to 3 ft.	.60
3 to 4 ft.	.75	90	8 to 24 ins.	.50	100	3 to 4 ft.	.70
4 to 5 ft.	.90	34	3 to 4 ft.	.60		<i>Syringa vulgaris</i> , French Hybrids:	
<i>Hydrangea A. G.</i> , 18 to 24 ins.	.50	214	<i>Physocarpus opulifolius</i> , 2 to 3 ft.	.45	300	<i>Charles Joly</i> , 2 to 3 ft.	1.00
2 to 3 ft.	.55	50	<i>Physocarpus opulifolius aureus</i> .	.40	50	<i>Katharine Havemeyer</i> , 2 to 3 ft.	1.00
<i>Hydrangea P. G.</i> , Tree form.		150	18 to 24 ins.	.50	100	<i>Ludwig Spaeth</i> , 2 to 3 ft.	1.00
2 to 3 ft.	2.50	210	<i>Physocarpus opulifolius nana</i> .	.65	100	<i>President Grevy</i> , 2 to 3 ft.	1.00
3 to 4 ft.	.45	500	3 to 4 ft.	.60	500	<i>Tamarix africana</i> , 2 to 3 ft.	.30
<i>Hypericum densiflorum</i> , 18 to 24 ins.	.15	100	<i>Prunus glandulosa rosea</i> , 18 to 24 ins.	.45	500	3 to 4 ft.	.40
<i>Ilex verticillata</i> , 18 to 24 ins.	.35	195	2 to 3 ft.	.50	240	<i>Tamarix amurensis</i> , 2 to 3 ft.	.50
2 to 3 ft.	.70	460	<i>Ranunculus kerritoides</i> (scandens).	.50	150	<i>Tamarix odessana</i> , 18 to 24 ins.	.35
3 to 4 ft.	.85	130	18 to 24 ins.	.65	165	<i>Viburnum carlesii</i> , pots, 12 to 18 ins.	1.75
<i>Kolkwitzia amabilis</i> , 12 to 18 ins.	.30	135	<i>Rhus canadensis</i> (aromatica).	.50	300	B&B, 18 to 24 ins.	2.25
2 to 2 1/2 ft.	.50	55	18 to 24 ins.	.65	150	B&B, 2 to 2 1/2 ft.	2.75
3 to 4 ft.	.60	190	<i>Rhus cotinus</i> , 18 to 24 ins.	.65	165	B&B, 2 1/2 to 3 ft.	3.50
5 to 6 ft.	2.25	47	12 to 18 ins.	.40	60	B&B, 3 to 3 1/2 ft.	4.25
<i>Ligustrum amurense</i> , 12 to 18 ins.	.12	180	3 to 4 ft.	1.25	550	<i>Viburnum dentatum</i> , 18 to 24 ins.	.35
(\$200.00 per 1000) 2 to 3 ft.	.22	165	<i>Rhus rubrifolia</i> , 2 to 3 ft.	1.50	300	2 to 3 ft.	.45
(\$250.00 per 1000) 3 to 4 ft.	.30	415	3 to 4 ft.	1.75	40	4 to 5 ft.	.75
<i>Ligustrum ibolium</i> , 12 to 18 ins.	.10	185	<i>Rosa rugosa rubra</i> , 12 to 18 ins.	.40	50	2 1/2 to 3 ft.	3.75
(\$150.00 per 1000) 18 to 24 ins.	.20	235	2 to 3 ft.	.60	50	<i>Viburnum molle</i> , 18 to 24 ins.	.35
(\$200.00 per 1000) 2 to 3 ft.	.25	110	3 to 4 ft.	.80	50	2 to 3 ft.	.45
(\$250.00 per 1000) 3 to 4 ft.	.30	130	18 to 24 ins.	.55	70	<i>Viburnum opulus</i> , 2 to 3 ft.	.50
<i>Ligustrum ibota</i> , 2 to 3 ft.	.20	130	2 to 3 ft.	.70	25	3 to 4 ft.	.60
4 to 5 ft.	.30	50	3 to 4 ft.	1.00	500	<i>Weigela Bristol Ruby</i> , 18 to 24 ins.	.60
<i>Ligustrum ovalifolium</i> .					400	2 to 3 ft.	.80
(\$100.00 per 1000) 18 to 24 ins.	.12				150	3 to 4 ft.	.90
(\$160.00 per 1000) 2 to 3 ft.	.18				100	<i>Weigela Newport Red</i> , 2 to 3 ft.	.65
(\$250.00 per 1000) 3 to 4 ft.	.30				65	<i>Weigela rosea</i> , 18 to 24 ins.	.45
<i>Ligustrum regelianum</i> , 15 to 18 ins.	.35				300	2 to 3 ft.	.55
(\$400.00 per 1000) 18 to 24 ins.	.45				25	3 to 4 ft.	.70
2 to 2 1/2 ft.	.50				200	<i>Weigela rosea variegata</i> , 18 to 24 ins.	.65
<i>Lindera benzoin</i> , 18 to 24 ins.	.50						
2 to 3 ft.	.65						
<i>Lonicera morrowi</i> , 2 to 3 ft.	.50						
3 to 4 ft.	.60						

PLEASE ORDER EARLY. Stock is short, as others Nursery Co. and Maxwell, Bowden & Rice. Usual terms. We are wholesale only. Please order deciduous stock in multiples of 10 as much as possible. 30 or more of a kind take the 100 rate used in this list. Less than 30 of a variety will take 10 rate, and represents practically all stock we have to offer at this time.

E. D. ROBINSON SALES AGENCY

8 S. Elm St.

"A Friendly, Efficient Service"

WALLINGFORD, CONN.

Serving the nursery trade for more than a quarter of a century.

their work. The kind of award was left open for further discussion.

Scholarships

The next subject referred to the executive committee by the annual meeting was the matter of scholarships. This talk brought out many ideas. Mr. Hogan made an able presentation of why the N. E. N. A. should enter into a project that would give the publicity committee something to talk about and would benefit the whole industry. This could be cooperative research or a number of other things.

President Dick van Heiningen,

Deep River, Conn., then brought out the fact that practice and bylaws differed on the matter of standing committees. To correct this he recommended that the name of the "vigilance" committee be changed to "trade practices and ethics," and that a resolution committee be added. These changes will be brought up at the annual meeting.

President van Heiningen authorized for endorsement by the association a booklet entitled "What Tree Shall We Plant?" to be published by Utilities of Connecticut.

The final item taken up before adjournment was an invitation from

the nurseries in the Newport area for the N. E. N. A. to meet with them in 1957 for the summer meeting. Erwin N. Whitham, Sec'y.

RICHARD TERRIL and his wife, Francesca, 851 Craig avenue, Boyes Hot Springs, Calif., recently opened a new nursery, the Green Tree.

GARRET S. JONES, owner of the Black River Nurseries, R. F. D. 1, Black River, N. Y., is planning to open a garden center this summer, in conjunction with the nursery business, which is operated on a 30-acre tract of land eight miles east of Watertown.



OUR 35th year

FINER LINERS

by

JOHN VERMEULEN & SON, INC.

Neshanic Station, New Jersey

GRAFTS are strong healthy scions on sturdy understocks established one year in the pot and are available after May 1. **ROOTED CUTTINGS** are individually selected, graded, made up and stuck assuring maximum uniformity. Roots are the best possible. Nothing sold that will not grow given proper care. **POT DISCOUNT.** All orders picked up at the nursery that do not require special loading or preparation are permitted a discount of 2% in addition to regular discounts.

5 AT 10 RATE. 25 AT 100 RATE. 250 AT 1000 RATE.

	Each per 10	Each per 100	Each per 1000
ABELIA GRANDIFLORA (Glossy Abelia)			
2 1/4-in. pot, 6 to 8 ins.	\$0.20	\$0.16	\$0.15
1-yr., 3-in. pot	.40	.30	.27
4-in. (No. 0) Mennepot	.60	.50	
ACER PALMATUM ASHI-BENI (Japanese Red Maple)			
Own root, 1-yr., 2 1/4-in. pot, 8 to 12 ins.	1.00	.75	
Graft, 2 1/4-in. pot, 8 to 12 ins.	1.00	.75	
Own root, 2-yr., 2 1/4-in. pot, 8 to 12 ins. br.	1.50	1.25	
ACER PALMATUM ATROPURPUREUM (Blood-leaved Japanese Red Maple)			
2-yr., 2 1/4-in. pot, 8 to 8 ins.	.35	.30	.25
2-yr., 3-in. pot, 8 to 10 ins., S. br.	.60	.50	.45
ACER PALMATUM BURGUNDY LAKE (Lace-leaved Japanese Red Maple)			
Grafts, 2 1/4-in. pot, 8 to 12 ins.	1.00	.85	
ACER PLATANOIDES ASCENDENS (Pyramidal Norway Maple)			
Grafts, 2 1/4-in. pot, 6 to 10 ins.	1.50	1.25	
ACER SACCHARUM MONUMENTALE (Sentry Sugar Maple)			
Grafts, 2 1/4-in. pot, 6 to 10 ins.	1.50	1.25	
HARDY AZALEAS			
AZALEA BARBARA , new, improved Fedora, later.			
2 1/4-in. pot, spring liners	.42 1/2	.35	
AZALEA BENI-KIRISHIMA , late, double, orange-red			
2 1/4-in. pot, spring liners	.30	.25	
AZALEA GABLE HYBRIDS , very hardy, evergreen			
2 1/4-in. pot, spring liners	.30	.25	
CAROLINE GABLE CORSAGE ELIZABETH GABLE GABLE'S SCARLET HERBERT LA LUMIERE (Herbert and Lorna, 20c each, 250 and up)			
AZALEA GABLE LORNA , double pink Flats of 60 (call or delivery only)	\$100.00		
AZALEA BUCCANEER , large, orange-red 2 1/4-in. pot, spring liners	.30	.25	
AZALEA HINO-CRIMSON , hardy crimson-red. Spring liners, 60 per flat.	\$ 9.00	\$ 8.00	\$ 7.50
1-yr. liners, 60 per flat.	13.50	12.00	11.00
Spring liners, 2 1/4-in. pot	\$0.22 1/2	\$0.17 1/2	\$0.16
1-yr. liners, 2 1/4-in. pot	.30	.25	.22 1/2
3-in. pot, budded	.50	.40	.35
2-yr., 8 to 10 ins.	.90	.75	.65
XX, budded	1.15	.95	.85
AZALEA KAEMPFERI (Torch Azalea) 2-yr., X, S. (May)	\$0.25	\$0.25	
6 to 10 ins. XX, frames	.45	.35	
AZALEA KAEMPFERI HYBRIDS Spring liners, 2 1/4-in. pots	.22 1/2	.17 1/2	
FEDORA FLAME CARMEN OTHELLO LATE HYBRID (Blooms Later)			
AZALEA MOLLIS (Chinese Azalea) 2-yr., X, S. (May)	.30	.24	
AZALEA MUCRONULATA , early lavender 2-yr., X, S. (May)	.30	.24	
AZALEA NANCY , new, hardy Coral Bells Spring liners, 2 1/4-in. pot.	.42 1/2	.35	
AZALEA PONTICA , yellow, deciduous, hardy 2-yr., X, S. (May)	.25	.20	
AZALEA PONTICA—GHENT HYBRIDS Grafts, 1-yr., 3 1/2-in. pot, 8 to 12 ins.	1.40		
DAVIES' PALLAS GLORIA MUNDI IGNAEA NOVA NANCY WATERER NARCISIFLORA AZALEA POUKHANENSIS , low, early lavender 2-yr., X, S. (May)			
AZALEA SHERWOOD CERISE , H in H, pink Spring liners, 2 1/4-in. pot.	.30	.25	
AZALEA SHERWOOD RED , early low red Spring liners, 2 1/4-in. pot.	.30	.25	
AZALEA VUKYIANA HYBRIDS Spring liners, 2 1/4-in. pot.	.30	.25	
BEETHOVEN MOZART HELENA VUYK JOSEPH HAYDN JOHANN STRAUSS QUEEN WILHELMINA WILHELMINA VUYK (PALESTRINA) 20c each, 250 and up			
AZALEA WENDY , new, hardy lesifolia alba Spring line, 2 1/4-in. pot.	.42 1/2	.35	
BERBERIS THUNBERGI ATROPURPUREA NANA (Crimson Pygmy Barberry) 10 to 12 ins., B&B, heavy	1.75		

	Each per 10	Each per 100	Each per 1000
BUXUS MICROPHYLLA KOREANA (Korean Boxwood)			
2 1/4-in. pot	\$0.25	\$0.20	
1-yr., 2 1/4-in. pot	.30	.25	
BUXUS SEMPERVIRENS MYRTIFOLIA (Myrtle-leaved Boxwood)			
2 1/4-in. pot	.22 1/2	.17 1/2	
1-yr., 2 1/4-in. pot	.30		
CHAMAECYPARIS OBUSA COMPACTA (Compact Hinoki Cypress)			
Grafts, 2 1/4-in. pot	.75		
CHAMAECYPARIS OBUSA NANA (Dwarf Hinoki Cypress)			
Grafts, 2 1/4-in. pot	.75	.60	
CORNUS FLORIDA (White Dogwood) 3 to 4 ft., heavy	1.25		
4 to 5 ft., heavy	1.50		
COTONEASTER DIELSIANA MAJOR 1-yr., S. 18 to 24 ins.	.22 1/2	.17 1/2	
COTONEASTER HORIZONTALIS 1-yr., 3-in. pot, from cuttings	.50	.40	
COTONEASTER HORIZONTALIS PERUSILLA 2 1/4-in. pot, from cuttings	.35		
COTONEASTER MOUPINENSIS 1-yr., S. 18 to 24 ins.	.22 1/2	.17 1/2	
COTONEASTER RACEMIFLORA SOONGORICA 1-yr., S. 18 to 24 ins.	.22 1/2		
DAPHNE BURKWOODI 2 1/4-in. pot	.50		
FAGUS SYLVATICA RIVERSI (Rivers' Beech) 2-yr., grafts, 4-in. pot, 18 to 24 ins.	2.50		
2-yr., grafts, 6-in. pot, 24 to 30 ins.	3.50		
FRANKLINIA ALATAMAH (Gordonia) 3-in. pot, 12 to 15 ins., from cuttings	.75	.60	
HAMAMELIS MOLLIS (Chinese Witch Hazel) Grafts, 2 1/4-in. pot, 8 to 12 ins.	.75	.60	
Grafts, 1-yr., 3-in. pot, 12 to 15 ins.	1.20	1.00	
ILEX AQUIFOLIUM , paired female and male 1-yr., 3-in. pot	.75		
ILEX CRENATA (Japanese Holly) Rooted cuttings, 4 to 8 ins.	.11	.08	
Rooted cuttings, 6 to 8 ins.	.12	.09	
1-yr., X, 4 to 8 ins.	.20		
2-yr., X, 4 to 6 ins.	.17 1/2	.22 1/2	
2-yr., X, 6 to 10 ins.	.30	.25	
3-yr., X, 8 to 12 ins.	.50	.40	
12 to 18 ins. XX, field	1.00		
ILEX CRENATA CONVEXA (Bullata) (Japanese Holly) Rooted cuttings, 4 to 6 ins.	.11	.08	\$0.07 1/2
Rooted cuttings, 6 to 8 ins.	.12	.09	
2 1/4-in. pot, 5 to 7 ins.	.22 1/2	.17 1/2	
4-in. (No. 0) Mennepot, 8 to 10 ins.	.75	.60	
ILEX CRENATA GREEN-THUMB , new 2 1/4-in. pot	.42 1/2		
ILEX CRENATA HELLERI , low dwarf 2 1/4-in. pot	.22 1/2	.17 1/2	
1-yr., 2 1/4-in. pot	.27 1/2	.22 1/2	
1-yr., 3-in. pot	.45	.35	
ILEX CRENATA LATIFOLIA , big-leaved, tall Rooted cuttings, 4 to 6 ins.	.11	.08	.07 1/2
Rooted cuttings, 6 to 8 ins.	.12	.09	.08 1/2
2 1/4-in. pot, 5 to 6 ins.	.22 1/2	.17 1/2	
1-yr., X, 6 to 8 ins.	.20	.16	
2-yr., 2 1/4-in. pot, 6 to 8 ins.	.30	.25	
3-in. pot, 8 to 10 ins., heavy	.45	.35	.32 1/2
4-in. (No. 0) Mennepot, 9 to 12 ins.	.75	.60	.55
12 to 18 ins. XXX, field	1.15		
ILEX CRENATA LONGIFOLIA (Long-leaved Japanese Holly) 2-yr., X, 6 to 10 ins.	.30	.25	
ILEX CRENATA MICROPHYLLA (Little-leaved Japanese Holly) Rooted cuttings, 4 to 6 ins.	.11	.08	
2 1/4-in. pot, 5 to 7 ins.	.22 1/2	.17 1/2	
1-yr., 2 1/4-in. pot, 6 to 8 ins.	.30	.25	
2-yr., X, 4 to 6 ins.	.27 1/2		
3-in. pot, 6 to 9 ins.	.45	.35	.32 1/2
ILEX OPACA ROTUNDIFOLIA (Round-leaved American Holly) 3-in. pot	.75	.60	
ILEX VERTICILLATA 1-yr., S.	.10	.07 1/2	

	Each per 10	Each per 100	Each per 1000
ILEX CRENATA ROTUNDIFOLIA (Round-leaved Japanese Holly) Rooted cuttings, 4 to 6 ins.	\$0.11	\$0.08	
Rooted cuttings, 6 to 8 ins.	.12	.09	
2 1/4-in. pot, 5 to 7 ins.	.22 1/2	.17 1/2	
1-yr., X, 6 to 8 ins.	.20	.16	
2-yr., X, 6 to 12 ins.	.30	.25	
3-in. pot, 8 to 10 ins.	.45	.35	
4-in. (No. 0) Mennepot, 8 to 12 ins.	.75	.60	
12 to 18 ins. XXX, field	1.25		
JUNIPERUS CHINENSIS PFITZERIANA (Pfitzer Juniper) Rooted cuttings, 5 to 7 ins.	.15	.12 1/2	
1-yr., 2 1/4-in. pot	.30	.25	
JUNIPERUS CHINENSIS PFITZERIANA COMPA (Compact Pfitzer Juniper) Rooted cuttings, 5 to 7 ins.	.15	.12 1/2	
1-yr., 2 1/4-in. pot	.30	.25	
JUNIPERUS GLAUCA HEITZI (Blue Heltz Juniper) Rooted cuttings, 5 to 7 ins.	.15	.12 1/2	
JUNIPERUS HORIZONTALIS GLAUCA (Blue Creeping Juniper) Rooted cuttings, 5 to 7 ins.	.15	.12 1/2	
JUNIPERUS HORIZONTALIS PLUMOSA (Andorra Juniper) Rooted cuttings, 5 to 7 ins.	.15	.12 1/2	
1-yr., 2 1/4-in. pot	.30	.25	
3-in. pot, 6 to 10 ins.	.45	.35	
JUNIPERUS PROCUMBENS NANA (Hill Japanese Juniper) 1-yr., 2 1/4-in. pot	.30	.25	
JUNIPERUS SQUARROSA EXPANSA (PARSONI) 1-yr., 2 1/4-in. pot	.30	.25	
JUNIPERUS VIRGINIANA KOSTERI (Koster Red Cedar Juniper) 1-yr., 2 1/4-in. pot	.30		
KERRIA JAPONICA PLENIFLORA 1-yr., 3-in. pot	.40	.30	
2-yr., X, S. (May)	.30	.25	
LEUCOTHOE CATESBAEI (Drooping Leucothoe) 1-yr., X, S. (May)	.30	.25	
MAGNOLIA SOULANGIANA (Saucer Magnolia) 1-yr., 3-in. pot, 8 to 12 ins.	.80	.65	
2-yr., 3 1/2-in. pot, 1 to 2 ft.	1.40	1.15	
MAGNOLIA SOULANGIANA ALEXANDRINA 1-yr., 3-in. pot, 8 to 12 ins.	.75		
PICEA GLAUCA (Canadensis, Alba) (White Spruce) 9 to 12 ins. X	.15	.12 1/2	
PIERIS JAPONICA 2-yr., X, S. (May)	.30	.25	
6 to 9 ins. XX, beaded	.42 1/2	.35	
PINUS STROBUS PYRAMIDALIS (Pyramidal White Pine) Grafts, 2 1/4-in. pot, 8 to 10 ins.	.90	.75	
PINUS SYLVESTRIS WATERERI (Dwarf Scotch Pine) Grafts, 2 1/4-in. pot, 4 to 6 ins.	.90	.75	
PYRACANTHA COCCINEA LALANDI (Laland Firethorn) 2 1/4-in. pot	.25	.20	
3-in. pot, 9 to 15 ins.	.60	.50	
PYRACANTHA COCCINEA LOWBOY (Lowboy Firethorn) 2 1/4-in. pot	.25	.20	
1-yr., 2 1/4-in. pot, 6 to 9 ins.	.30	.25	
3-in. pot, 9 to 12 ins.	.50	.40	
3-in. pot, 12 to 15 ins.	.60	.50	
RHODODENDRON HYBRID SEEDLINGS , red Seed from best and hardiest hybrids, 4 to 6 ins. XX, frames (May) 6 to 9 ins. XX, frames (May)	.50	.40	
RHODODENDRON HYBRID GRAFTS 1-yr., grafts, 3 1/2-in. pots, 8 to 12 ins., strong \$16.50 per 10; \$75.00 per 50; \$135.00 per 100. (Varieties may be assorted.)			
AMERICA E. S. RAND CARACTACUS F. D. GODMAN CATAWBIENSE ALBUM IGNATIUS SARGEN DR. DRESSELHUBS LEES DARK PURPLE DR. RUTGERS			
RHODODENDRON CAROLINIANUM 2-yr., X, S. (May)	.35	.30	
SARCOCOCCA HOOKERIANA HUMILIS 3-in. pot, 4 to 6 ins.	.50	.40	

CONTINUED NEXT PAGE

COMING EVENTS

MEETING CALENDAR

May 23 to 25, western chapter National Shade Tree Conference, convention, Rickey's Garden hotel, Palo Alto, Calif.

May 24 to 26, Florida Nurserymen and Growers Association, annual convention, Roosevelt hotel, Jacksonville, Fla.

May 28 to 30, Texas Association of Nurserymen, short course, Texas A. and M. College, College Station, Tex.

June 3 to 5, Georgia State Nurserymen's Association and South Carolina Nurserymen's Association, joint annual convention, Bon Air hotel, Augusta, Ga.

June 6 to 7, nurserymen's refresher course, California State Polytechnic College, San Luis Obispo, Calif.

June 17 to 19, Mississippi Florists' and Nurserymen's Association, annual convention, Buena Vista hotel, Biloxi, Miss.

June 24 to 26, New Mexico Association of Nurserymen and Plains Nurserymen's Association, joint convention, Caprock hotel, Lubbock, Tex.

July 15 to 19, American Association of Nurserymen, annual convention, Hotel Statler, Los Angeles, Calif.

NORTH CAROLINA TOUR

The summer tour of the North Carolina Association of Nurserymen is scheduled for June 10 to 14. Association members and their families going on the tour will leave from Fowler's Nursery, Raleigh, N. C., and will visit Virginia Beach, and Richmond, Va.; the Del-Mar-Va peninsula; Beltsville, Md.; Washington, D. C.; the National Arboretum, and nurseries en route. Reservations should be made with C. Ralph Shannon, secretary-treasurer, Southern Nursery Supply, Pinchurst, N. C.

TEXAS CONVENTION HEADS

The annual convention of the Texas Association of Nurserymen will be held August 19 to 22 at the Shamrock-Hilton hotel, Houston, Tex. Mancill Allen, Houston, is general chairman of the convention program, and Edward Teas, Bellaire, is treasurer.

Making up the executive committee are Mancill Allen, Robert Suggs, Frank Cornelius, Edward Teas, R. E. McMinn, John Botter and Durward Thompson, ex officio.

In the following list of other convention committees and their members, the first-named person in each group is chairman, except as co-chairmen are indicated:

Program book and booth exhibit sales—

WHOLESALE ONLY

To the man that can dig and haul his own.

Norway Spruce, 5-yr.	\$0.50
White Pine, 5-yr.	.50
Globe Arborvitae, 3-yr.	1.00
Oriental Arborvitae, 2 to 3 ft.	.50
Oriental Arborvitae, 3 to 5 ft.	1.50
Andorra Juniper, 2-yr., 2 ft.	1.25
White Birch, 5 to 10 ft.	1.00
European Red Maple, 10 to 12 ft.	1.00
Oriental Plane Tree, 6 to 7 ft.	1.00
Chinese Elm, 6 to 10 ft.	1.00
Larch, 6 to 10 ft.	1.00
Tamarix, 6 ft.	.35
Weeping Willow, 6 to 8 ft.	.50
Weeping Willow, 12 ft.	1.00
Althaea, mixed colors, 6 ft.	.50
Forsythia spectabilis, 3 to 4 ft.	.50
Weigela, extra heavy, 5 ft.	.75
Quince, 3-yr.	.35
Lombardy Poplar, 12 ft.	.20
Lombardy Poplar, 6 ft.	.10
Paul's Scarlet Roses, 6 ft.	1.00
Azaleas, 10 to 12 ins.	1.25
Magnolia nigra, 4-yr.	1.75
Redbud (Judas Tree), 4 ft.	.35
Double Red-flowering Peach, 3 to 4 ft.	1.00
Purple-leaved Plum, 3 to 4 ft.	1.00
Purple-leaved Plum, 6 to 9 ft.	3.00
Spiraea, bird's-eye, 12 to 15 ins.	.20
Spiraea vanhouttei, 3 ft.	.25
Spiraea Upright Red Japonica, 2 ft.	.40
Pink Dogwood, 2 to 3 ft.	1.25
Pink Dogwood, 18 to 24 ins.	1.00
White Dogwood, 2 to 3 ft.	.25
White Dogwood, 12 to 18 ins.	.10
Coralberry, purple fruit, 15 to 18 ins.	.25
5000 Azaleas—A bargain to the man that can use quantity lots.	

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Any quantity available.

1/2 to 12-in. cal.

Beech, Ash, Red Maple, Red Oak, Birch and Shadblow also available.

R. H. ROGERS NURSERY
COOPERSTOWN, N. Y.

	Each per 10	Each per 100	Each per 1000
TAXUS BACCATA REPANDENS (Spreading English Yew)			
1-yr., 2 1/4 in. pot.	\$0.30	\$0.25	\$0.22 1/2
TAXUS BACCATA WASHINGTONI (Washington English Yew)			
1-yr., 2 1/4 in. pot.	.30	.25	
TAXUS CUSPIDATA (Spreading Japanese Yew)			
Rooted cuttings, 6 to 8 ins.	.12	.09	
Rooted cuttings, 8 to 10 ins.	.13	.10	.09 1/2
1-yr., X, 4 to 10 ins.	.25	.20	
TAXUS CUSPIDATA BREVIFOLIA (Dwarf Japanese Yew)			
Rooted cuttings, 4 to 6 ins.	.13	.10	
Rooted cuttings, 6 to 8 ins.	.14	.11	
Rooted cuttings, 8 to 10 ins.	.15	.13	
TAXUS CUSPIDATA CAPITATA (Upright Japanese Yew)			
Rooted-tip cuttings, 4 to 6 ins.	.12 1/2	.10	
Rooted-tip cuttings, 6 to 8 ins.	.15	.12 1/2	
Rooted-tip cuttings, 8 to 10 ins.	.17 1/2	.15	
Rooted-tip cuttings, 10 to 12 ins.	.20	.17 1/2	
1-yr., S., select grade.	.07 1/2	.06	
1-yr., S., select grade, 2500 and up	5c		
4 to 6 ins., S., select grade.	.25	.20	.18
6 to 8 ins., S., select grade.	.30	.25	.22 1/2
TAXUS CUSPIDATA DENSIFORMIS (Dense Japanese Yew)			
Rooted cuttings, 4 to 6 ins.	.12	.09	
Rooted cuttings, 8 to 10 ins.	.15	.12	
TAXUS CUSPIDATA INTERMEDIA (Intermediate Yew)			
Rooted cuttings, 6 to 8 ins.	.13	.10	.09 1/2
Rooted cuttings, 8 to 10 ins.	.15	.12	.11
2-yr., X, 8 to 12 ins.	.40	.35	
TAXUS CUSPIDATA VERMEULEN (Vermeulen Yew)			
Rooted cuttings, 4 to 6 ins.	.12	.09	.08 1/2
Rooted cuttings, 6 to 8 ins.	.13	.10	
Rooted cuttings, 8 to 10 ins.	.15	.12	.11
1-yr., X, 6 to 8 ins.	.25	.20	
2 1/4 in. pot.	.30		
2-yr., X, 10 to 12 ins.	.45		
TAXUS MEDIA BROWNI (Brown Yew)			
2 1/4 in. pot.	.30	.25	
TAXUS MEDIA HATFIELDI (Upright Hatfield Yew)			
Rooted cuttings, 4 to 6 ins.	.12	.09	.08 1/2
Rooted cuttings, 6 to 8 ins.	.13	.10	
Rooted cuttings, 8 to 10 ins.	.15	.12	
1-yr., X, 4 to 8 ins.	.25		
2-yr., X, 8 to 10 ins.	.40	.35	
TAXUS MEDIA HICKSI (Hicks' Yew)			
Rooted cuttings, 8 to 10 ins.	.15	.12	.11
2 1/4 in. pot.	.30	.25	
TAXUS MEDIA KELSEYI (Berrybush Yew)			
Rooted cuttings, 6 to 8 ins.	.13	.10	
Rooted cuttings, 8 to 10 ins.	.15	.12	
1-yr., X, 6 to 10 ins.	.25	.20	
2 1/4 in. pot.	.30	.25	
VERTICAL YEWs —Tall, narrow, hardy (Taxus Media)			
FLUSHING, grade D only			
GRANDIFOLIA, grades B and D only			
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ROBUSTA, grades A, D, F and H only			
STRICTA, grades B, D and F only			
STRIDIS, grades A, B and D only			
Grade A, rooted cuttings, 3 to 4 ins.	.13 1/2	.11	
Grade B, rooted cuttings, 4 to 6 ins.	.15	.12 1/2	
Grade D, 2 1/4 in. pot.	.35	.30	
Grade F, 2-yr., X, 8 to 12 ins.	.50	.40	
Grade H, 4-yr., XX, 12 to 15 ins.	.95		
TSUGA CANADENSIS (Canadian Hemlock)			
4 to 6 ins., X.	.25	.20	.18
6 to 8 ins., X.	.30	.25	
VIBURNUM BURKWOODI			
2 1/4 in. pot.	.25	.20	
1-yr., 2 1/4 in. pot.	.30	.25	
3-in. pot, 6 to 10 ins.	.50	.40	
4-in. (No. 6) Menepot, 10 to 15 ins.	.75	.60	
VIBURNUM CARLESI (Korean Spice Viburnum)			
1-yr., 2 1/4 in. pot. heavy, S.	.35	.30	
VIBURNUM DILATATUM (Linden Viburnum)			
1-yr., S., heavy.	.10	.07 1/2	.06
2-yr., X, 6 to 12 ins.	.15	.12 1/2	
2-yr., X, 12 to 18 ins.	.20	.15	
VIBURNUM RHYTIDOPHYLLUM (Leather-leaved Viburnum)			
3-in. pot.	.50		
VIBURNUM WRIGHTI			
1-yr., S.	.12 1/2	.10	

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Elaeagnus Fruitlandi
Elaeagnus Simoni
Euonymus Coloratus
Euonymus Fortunei Erectus
(small leaf)
Euonymus Patens
Gardenia Fortunei
Ilex Cornuta Burfordi
Ilex Cornuta Femina
Ilex Crenata Convexa
Ilex Crenata Rotundifolia
Ilex Opaca East Palatka
(heavily sheared)
Ilex Vomitoria
(well sheared)
Pride of Houston
Jasminum floridum
Laurel Cherry
(well sheared)
Ligustrum Lucidum
(Black Wax)
Ligustrum Lucidum
(Griffing type)
Ligustrum Lucidum Nanum
Loropetalum Texanum
Magnolia Glauca
Magnolia Grandiflora
Magnolia Soulangeana
Magnolia Soulangeana Nigra
Nandina Domestica
Photinia Serrulata

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Arborvitae, Or. Baker
Arborvitae, Or. Berckmans
(Aurea Nana)
Arborvitae, Or. Blue Cone
(very compact)
Arborvitae, Or. Bonita
Arborvitae, Or. Bonita Golden
Arborvitae, Or. Excelsa
Arborvitae, Or. Fruitland
(Green Berckmans)

CONIFERS, cont.

Arborvitae, Or. Newark
Arborvitae, Occ. Globosa
Arborvitae, Occ. Nigra
(Dark Green)
Arborvitae, Occ. Pyramidalis
Cedrus Deodara
Juniper, Andorra
Juniperus Excelsa Stricta
Juniperus Fastigiata
Juniperus Glauca Hetzi
Juniperus Glauca Hetzi
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(light)
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Registration—Edward Teas, Ervin Richker, E. R. Lee, George Beck and Alex R. Creagh.

Reception—Frank Cornelius, Robert Suggs and Ralph Gunn.

Ladies' activities—Mrs. Ralph Gunn, Mrs. Frank Cornelius, Mrs. Mancill Allen, Mrs. R. E. McMinn, Mrs. Robert Suggs and Mrs. Edward Teas.

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Decorations—Mrs. Lila B. King; Mrs. Tom Foster, Jr.; Mrs. J. J. Kelly, and Paxton Davis.

INCOME TAX DECISION

In Amling-DeVor Nurseries vs. United States, a rather far-reaching and important decision was handed down in the United States District court in California February 28, 1956, reports the newsletter of the A. A. N.

Treasury rulings prohibit the use of a crop-inventory method of accounting for growing crops in an unmarketable stage. A crop-cost method is the proper procedure.

The court distinguished between these two methods as follows:

"In the inventory method, production costs are initially charged to inventory and are later written off as the costs of goods sold, as the inventory is reduced either by sales or by a downward adjustment to reflect a decline in market value below cost. In the crop-cost method, production costs of each crop are initially charged to deferred-crop-costs and are written off as the cost of operation only as such crop is sold."

The court held that the prohibited inventory method was used and therefore the nursery was entitled to file amended returns in which production costs were charged off in the year in which they were incurred.

ROBERT O. WILCOX, Farmington Nurseries & Tree Experts, Canton, Conn., was the subject of a biographical sketch and news story in the Hartford, Conn., Times for March 6, in connection with his preparation of an exhibit for the Connecticut spring flower and garden show.

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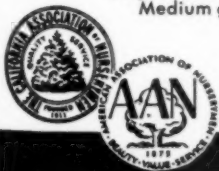
	2 1/4" POT
Ilex cren. convexa bullata Small growing shrub. Compact, glossy rounded leaves.	\$0.17 1/2
Ilex crenata Green Island (Pat. #817) Low, spreading shrub, neat growth.	.35
Ilex crenata rotundifolia Dense foliage, medium growing.	.20
Ilex cornuta burfordi Glossy foliage—bright red berries. Medium growing.	.15

	2 1/4" POT
Ilex opaca East Palatka Vigorous, tall-growing. Large red berries.	\$0.25
Ilex opaca glabra Luxuriant foliage—tall growing.	.17 1/2
Ilex vomitoria Dwarf Yaupon Compact growth—dwarf growing shrub.	.20
Ilex vomitoria Pride of Texas Scarlet berries. Medium growing shrub.	.20



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COVER ILLUSTRATION

Azalea Schlippenbachi

Many garden-minded persons have wondered how the Royal azalea received the species name of schlippenbachi when there are simpler names available. The Korean or Royal azalea, *Azalea schlippenbachi*, was first brought to the attention of the public by a Russian naval officer, Baron A. von Schlippenbach, who found it in Manchuria on the shores of the Possjet sound, about 1854. The Russian botanist, C. Maximowicz, gave the plant its scientific name in honor of the baron, and it was finally introduced into cultivation toward the end of the 19th century.

The coarse-appearing deciduous shrub has heavy stems for an azalea. The landscape height averages from five to eight feet after many years, but specimens 15 feet high may be found. The fragrant flowers, each measuring about three inches across, with reddish-brown spots on the upper petals, are formed in clusters of three to six at the tips of branches. It is interesting to note the variation in flower tones, some almost white with only a faint hint of pink, while others are a solid rose pink, or they may even be a very pleasing soft pink. Flowering time on Long Island varies, but flowers are first in evidence about April 20 to 25, the plant is in full bloom from April 27 to May 1 and the flowers lose their effectiveness about May 10.

The leaves are usually in fives at the tips of the sturdy branches and may be dark green, occasionally bluish green and often with tinges of bronze when the leaves first open. The fall color is orange to crimson to yellow. Because of the broad leaves, often about three inches wide, the subject becomes a welcome addition to an azalea planting, since it provides a pleasing contrast with the smaller leaves of surrounding azaleas.

A. schlippenbachi has been the topic of some interesting discussions, since it has not always been the simplest azalea to grow, particularly during its early years. It has been said that it is a possible plant for soils that are nearer neutral, or even on the alkaline side. Some persons feel that it grows best in an acid soil, but not a soil with the low pH in which some members of the heath family grow. A light soil is preferred.

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Almond, pink-flowering 300 12 to 18 ins. \$30.00 500 18 to 24 ins. 45.00 500 2 to 3 ft. 55.00 400 3 to 4 ft. 65.00	Honeysuckle, tatarian red 400 2 to 3 ft. \$45.00 300 3 to 4 ft. 55.00	Rhus, staghorn 200 12 to 18 ins. \$18.00 300 18 to 24 ins. 28.00 500 2 to 3 ft. 40.00
Althea 3000 12 to 18 ins. 20.00 4000 18 to 24 ins. 30.00 2000 2 to 3 ft. 40.00 1000 3 to 4 ft. 60.00	Honeysuckle, tatarian white 800 12 to 18 ins. 18.00 200 18 to 24 ins. 25.00	Ribes alpinum 200 18 to 24 ins. 75.00
Anemoneflorus	Honeysuckle, zabeli 300 12 to 18 ins. 25.00 200 18 to 24 ins. 35.00 300 2 to 3 ft. 45.00	Spiraea Anthony Waterer 200 12 to 15 ins. 35.00 500 18 to 24 ins. 55.00
Ardens	Hydrangeas, peegee 200 12 to 18 ins. 28.00 300 2 to 3 ft. 50.00 300 3 to 4 ft. 60.00	Spiraea arguta 100 12 to 18 ins. 25.00 300 18 to 24 ins. 35.00
Boule de feu	Lilac, common purple 200 9 to 12 ins. 18.00 100 12 to 18 ins. 25.00 300 18 to 24 ins. 35.00	Spiraea billardi, pink 2000 12 to 18 ins. 25.00 1000 18 to 24 ins. 35.00
Jeanne de arc	Lilac, rothomagensis 400 18 to 24 ins. 40.00 500 2 to 3 ft. 50.00	Spiraea blue mist 100 Medium 25.00 150 No. 1 35.00
Purpurea	Lilac, French 400 12 to 18 ins. 40.00 (blue, pink, purple, red, white)	Spiraea froebeli 500 12 to 18 ins. 30.00 500 18 to 24 ins. 35.00
Snowdrift	Philadelphus coronarius 100 9 to 12 ins. 18.00 400 12 to 18 ins. 25.00 100 18 to 24 ins. 40.00	Spiraea japonica coccinea 200 12 to 15 ins. 40.00 300 18 to 24 ins. 50.00
Barberry, red-leaved 300 9 to 12 ins. 25.00 200 12 to 15 ins. 32.00	Philadelphus coronarius aurea 200 12 to 18 ins. 75.00 350 18 to 24 ins. 90.00	Spiraea thunbergi 300 12 to 18 ins. 25.00 1000 18 to 24 ins. 40.00
Barberry, thunbergi 400 18 to 24 ins. 33.00 200 2 to 2½ ft. 40.00	Philadelphus grandiflorus 100 9 to 12 ins. 20.00 300 18 to 24 ins. 40.00 300 2 to 3 ft. 50.00	Spiraea vanhouttei 2000 12 to 18 ins. 21.00 100 18 to 24 ins. 28.00 300 2 to 3 ft. 35.00
Caragana arborescens 300 12 to 18 ins. 18.00 200 18 to 24 ins. 25.00 300 2 to 3 ft. 35.00	Philadelphus virginial 100 9 to 12 ins. 20.00 1000 12 to 18 ins. 28.00 1000 18 to 24 ins. 40.00 200 2 to 3 ft. 50.00	Symphoricarpos chenaulti 300 18 to 24 ins. 25.00 200 2 to 3 ft. 30.00
Cornus alba siberica 200 18 to 24 ins. 35.00 400 2 to 3 ft. 50.00 100 3 to 4 ft. 60.00	Physocarpus opulifolius aureus 300 12 to 18 ins. 25.00 400 2 to 3 ft. 45.00	Symphoricarpos racemosus 700 12 to 18 ins. 16.00 800 18 to 24 ins. 22.00 100 2 to 3 ft. 28.00
Cornus, variegated 100 12 to 18 ins. 55.00 100 2 to 3 ft. 80.00	Physocarpus opulifolius nana 100 12 to 18 ins. 25.00 500 2 to 3 ft. 45.00 400 3 to 4 ft. 55.00	Symphoricarpos vulgaris 100 12 to 18 ins. 16.00 500 18 to 24 ins. 22.00
Cydonia japonica 400 9 to 12 ins. 18.00 500 12 to 18 ins. 25.00 200 18 to 24 ins. 33.00	Potentilla fruticosa 100 9 to 12 ins. 25.00	Tamarix 1000 12 to 18 ins. 25.00 2000 18 to 24 ins. 35.00 1000 2 to 3 ft. 45.00
Cydonia nivalis 200 12 to 18 ins. 45.00 200 18 to 24 ins. 65.00	Privet, California 2000 18 to 24 ins. 13.00 3000 2 to 3 ft. 18.00 1000 3 to 4 ft. 22.00	Africana
Deutzia gracilis 300 9 to 12 ins. 25.00 400 12 to 15 ins. 40.00	Privet, Ibolium 2000 18 to 24 ins. 13.00 3000 2 to 3 ft. 18.00	Amurensis
Deutzia lemoinei 400 12 to 18 ins. 35.00 600 18 to 24 ins. 45.00	Privet, Regal 1000 12 to 18 ins. 24.00 2000 18 to 24 ins. 35.00	Hispid
Euonymus patens 300 15 to 18 ins. 65.00 400 18 to 24 ins. 80.00	Privet, Thompson's 2000 12 to 18 ins. 13.00 3000 18 to 24 ins. 17.00 3000 2 to 3 ft. 20.00	Summer Glow
Forsythia intermedia spectabilis 400 12 to 18 ins. 28.00 300 2 to 3 ft. 50.00 300 3 to 4 ft. 60.00	Rhus canadensis 100 2 to 3 ft. 60.00	Viburnum lantana 100 18 to 24 ins. 45.00
Forsythia Spring Glory 300 12 to 18 ins. 32.00 500 18 to 24 ins. 45.00 500 2 to 3 ft. 55.00 400 3 to 4 ft. 65.00	Rhus, cut-leaved 100 9 to 12 ins. 15.00 1000 12 to 18 ins. 20.00 300 18 to 24 ins. 28.00	Viburnum opulus 100 12 to 18 ins. 30.00 200 18 to 24 ins. 45.00
Honeysuckle, fragrantissima 500 12 to 18 ins. 25.00 900 18 to 24 ins. 35.00 200 2 to 3 ft. 45.00	Rhus, smooth 1000 12 to 18 ins. 18.00 1000 18 to 24 ins. 28.00 200 2 to 3 ft. 40.00 200 3 to 4 ft. 50.00	Vitex latifolia 100 12 to 18 ins. 30.00 200 18 to 24 ins. 40.00 100 2 to 3 ft. 50.00 200 3 to 4 ft. 60.00
Honeysuckle, grandiflora rosea 500 12 to 18 ins. 25.00 500 18 to 24 ins. 35.00		Weigela Bristol Ruby 200 3 to 4 ft. 100.00
Honeysuckle, korolkowi 300 12 to 18 ins. 30.00 300 18 to 24 ins. 45.00 400 2 to 3 ft. 55.00		Weigela Eva Rathke 100 12 to 18 ins. 32.00 100 18 to 24 ins. 45.00
Honeysuckle, tatarian pink 300 12 to 18 ins. 25.00 200 18 to 24 ins. 35.00 400 2 to 3 ft. 45.00 500 3 to 4 ft. 55.00		Weigela hendersoni 200 2 to 3 ft. 50.00
		Weigela Newport, red 200 2 to 3 ft. 60.00 800 3 to 4 ft. 75.00
		Weigela rosea 180 2 to 3 ft. 50.00 700 3 to 4 ft. 65.00
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OTTAWA, KAN.

full sun, partial shade or fairly dense shade, seem to be a fitting place for the Royal azalea. The effective contrasts it makes with viburnum, forms of Japanese maple, Carolina and Catawba rhododendrons, flowering dogwood and many other large shrubs and small trees are really surprisingly good. C. E. L.

ARBORETUM AT MEMPHIS

The Lumbermen's Club of Memphis, Tenn., is sponsoring an arboretum on the grounds of Southwestern College, Memphis. Clark E. McDonald, a director of the club, and Dr. R. P. Richardson, vice-president in charge of development at Southwestern College, are in charge of the project.

Southwestern, a college of liberal arts and sciences, has a 100-acre campus with handsome Gothic buildings. Over 1,500 trees, representing 62 different species, have been identified, and tags have been ordered for marking them. A planning committee is considering the purchase of additional species not already found on the campus, and clearance has begun for the planting of hardwoods native to the area.

It is expected that the arboretum will prove of great value not only to the college but to everyone in the locality. A plot index of the campus is being prepared to assist students and visitors in locating the various trees and learning more about the arboretum. The Lumbermen's Club is allocating \$700 a year for the development of the arboretum.

H. W. D.

ROSE FESTIVAL

The 16th annual rose festival at the Hillsdale Landscape Co. rose gardens, Indianapolis, Ind., will be held June 9 and 10. The new rose gardens now have more than 3,000 hybrid tea, climber and floribunda roses blooming in their second and third year. New introductions, including many of the All-America Rose Selections of the past several years, will be on display. Enlarged parking facilities near the gardens are expected to accommodate the anticipated large attendance. Attendance at the 1955 festival was more than 60,000, according to Alex Tuschinsky, owner of Hillsdale Landscape Co.

A new 1956 folder of Hillsdale roses available, handsomely illustrated in color, has been issued as an invitation to the festival. Many of the newer patented varieties of roses are shown.



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Hundreds of Nurserymen now using GLORION on their own nursery stock, in their own landscaping, and selling it! Provides a terrific repeat item with dealers everywhere!

CASH IN ON THIS BIG OPPORTUNITY
VALUABLE DEALERSHIPS AVAILABLE!
WRITE TODAY!



Glorion is a product of SOIL BUILDERS INTERNATIONAL CORP.
33 W. 42nd St., New York 36, N. Y.

PLANT: Clarksville, Tenn.



Planting in Proportion

By H. G. Seyler

Farr Nursery Co., Womelsdorf, Pa.

The current boom in packaged plants, canned plants, roadside stands, salesyards and so on is the natural accompaniment to the building boom. It is to be appreciated. It generates and spreads germs of garden fever. The fever can be cultured for maximum benefit to the nursery industry, or it can be exploited into a state of inertia.

In this boom, or period of good fishing, are we restocking the stream? Are we culturing or exploiting? Are we serving to the best interests of the product and of the consumer? Are we not, perhaps, being opportunists, following the line of least resistance? Could we be discouraging, if not killing, the golden goose? Are we not, perhaps, holding, if not reducing, the use of and demand for our product to the level of products that are collectors' items, like bric-a-brac, or purchased on impulse?

Are the garden results of pickup sales, as planted and as they mature, encouraging other homeowners to emulate them—as they emulate the split-level house, the \$3,000 modern kitchen in a \$9,000 house, wall-to-wall carpet, the 200-horsepower car and the color TV set? Are we nurserymen getting a fair share of the homeowners' dollar, or merely the scraps and the leavings? Do we deserve any better if pickup merchandise is to be the major medium of distribution? One can ease his conscience by saying that pickup merchandising is missionary work, but missionary work alone does not make or hold a thriving congregation!

Sell the Garden Unit

The building industry sells homes as units, creatively and attractively designed and presented. It does not major in peddling bricks and lumber as such. It sells pride of ownership, dreams of enjoyment, units of beauty—features which foster emulation and make price secondary. Builders and building supply companies, for example, combine to glamorize modern kitchens and bathrooms that are apace with increased incomes. Are the plantings of those homes, likewise, apace?

The current generation applies 10 times the price of homes 50 years ago, three times the price of homes 20 years ago. Are they applying the

same proportion on nursery stock? Is the nursery industry maintaining a proportionate share of national income? Can we do so without placing more emphasis on the sale of beautiful plantings, appropriate to the home, and less emphasis on the mere sale of plants as such?

The buyer of a new house these days is attracted to the garden mart of a chain store, the roadside stand, gas station shrubbery, yes—the salesyard of a nursery, including our own. He may expend as much as \$100. He then proceeds to do the planting with as much sense and accomplishment of beauty as a 2-year-old with a jigsaw puzzle. The neighbors have little reason or desire to emulate the achievement. The nursery

industry has lost a justifiable and potential 4-figure sale.

Lesson from Hats

Hattie Carnegie and her contemporaries are prosperous because their hats and dresses are designed units of originality and beauty. Even the nurseryman's wife will pay \$50 for a beautiful hat (with an intrinsic value of \$5) if her husband can afford it, rather than pick up 39 cents' worth of ribbon at one shop, 49 cents' worth of plastic at another, 69 cents' worth of artificial flowers and the frame of a lampshade as a foundation.

Not every sale of nursery stock justifies service in design, by any means, but, just as for other products, homeowners will consider surprising amounts for well-planned and beautiful plantings if a good plan is properly presented. And once there are good plantings in the community, the market for nursery stock can be expanded accordingly.

Improper and abused usage of any

B&B SPECIMENS

	Each
100 <i>Juniper glauca hetzi</i> , 3 to 4 ft.	\$4.00
300 <i>Taxus cuspidata</i> , spreaders, 18 to 24 ins.	4.00
300 <i>Taxus cuspidata</i> , spreaders, 15 to 18 ins.	3.00

CLOSELY SHEARED AND VERY COMPACT.

Will deliver in Buffalo area or you pick up.

Lots of 10 or more.

CLARKSBURG NURSERY

Langford Rd., Eden, N. Y.

Tel.: Eden 4307 — Other Sizes and Varieties

TAXUS CAPITATA

	Per 100	Per 1000
2-yr. sdgls., 3 to 6 ins.	\$10.00	\$90.00

Lining-out stock is our specialty. Complete catalog on request.

HEASLEY'S NURSERIES

247 Freeport Rd.

BUTLER, PA.

NORTHERN COLLECTED EVERGREENS

FERNS

PLANTS

SHRUBS

WILLIAM CROSBY HORSFORD
CHARLOTTE, VT.

JAPANESE RED BARBERRY

	Per 100	Per 1000
2-yr., 8, 6 to 9 ins.	\$ 5.50	\$ 45.00
Heavy transplants, 18 to 24 ins.	35.00	300.00
Heavy transplants, 2 to 2½ ft.	37.50	350.00

Packing additional at cost.

FAIRVIEW EVERGREEN NURSERIES
FAIRVIEW, Erie Co., PA.

ROSES

Central Pennsylvania Grown
Patented and Standard

Immediate or later delivery. Send for list of evergreens and roses.

SHADE'S NURSERY
4907 Orchard St. Harrisburg, Pa.

DECIDUOUS AND EVERGREEN TREES AND SHRUBS

Outstanding assortment.

Write for Wholesale Price List.

LOVETT'S NURSERY, INC.
LITTLE SILVER, N. J.



Growing Since '98

BURR

ROSES
EVERGREENS
SHRUBS
TREES
VINES

C. R. BURR & CO., INC., MANCHESTER, CONN., TEL. MITCHELL 3-4161

Do you have these

FREE SALES AIDS

Display charts for roses illustrating 37 varieties in full color. Measure 26 x 39 ins.

Illustrations of evergreens, roses and landscaping for use in your newspaper ads.

Catalogs covering one of the country's largest selections of plants — both packaged and bare-root.

On-the-spot merchandising assistance by the experienced Burr representative in your territory.

Feature of the Month

RED HONEYSUCKLE

Lonicera tatarica rubra

One of the most vigorous of the flowering shrubs. Strong, rugged canes, with red flowers in late May. Fruit in June and July. Grows to 9 or 10 feet tall.

Per 100

2 to 3 ft.\$50.00

3 to 4 ft. 65.00

*Write for attractive quotations
on larger quantities*

*These popular, easy-to-sell favorites
are also the best buys in our catalog:*

Forsythia Spring Glory

Forsythia spectabilis

Deutzia gracilis

Kolkwitzia

Philadelphus coronarius

Regel Privet

California Privet

Amur River Privet

BURR BUILDS YOUR BUSINESS

"Our purchases from C. R. Burr & Co. date back many years and have been a considerable portion of our requirements. We have received prompt shipment and fine-quality material which has found a ready market."

HOWARD C. TAYLOR
Rosedale Nurseries, Inc.
Eastview, N. Y.



POTTED LINERS

	Per 100	Per 1000
<i>Ilex crenata bullata</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	\$20.00	\$180.00
<i>Ilex crenata bullata</i> , 2-yr., 2 1/4-in. rose pot, 4 to 8 ins.	25.00	240.00
<i>Ilex crenata hetzi</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	20.00	180.00
<i>Ilex crenata rotundifolia</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	20.00	180.00
<i>Ilex crenata rotundifolia</i> , 2-yr., 2 1/4-in. rose pot, 4 to 8 ins.	24.00	220.00
<i>Ilex crenata Stokes Pat. 887</i> , 2-yr., 2 1/4-in. rose pot, 2 to 4 ins.	35.00	300.00
<i>Ilex glabra</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	20.00	180.00
<i>Ilex glabra</i> , 2-yr., 2 1/4-in. rose pot, 4 to 8 ins.	24.00	220.00
<i>Juniperus Andorra compacta</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	20.00	180.00
<i>Juniperus chinensis pfitzeriana</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	25.00	225.00
<i>Juniperus chinensis pfitzeriana glauca</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	27.50	250.00
<i>Juniperus glauca hetzi</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	20.00	180.00
<i>Juniperus Irish festigiata</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	20.00	180.00
<i>Taxus cuspidata</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	18.00	170.00
<i>Taxus cuspidata capitata</i> , seedling-grown, 3-yr., 2 1/4-in. rose pot, 3 to 6 ins.	22.50	200.00
<i>Taxus cuspidata Vermeulen</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	20.00	180.00
<i>Taxus intermedia</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	18.00	170.00
<i>Taxus intermedia</i> , 2-yr., 2 1/4-in. rose pot, 5 to 12 ins.	24.00	220.00
<i>Taxus media Adams</i> , 1-yr., 2 1/4-in. rose pots, 4 to 6 ins.	18.00	170.00
<i>Taxus media Adams</i> , 2-yr., 2 1/4-in. rose pots, 5 to 12 ins.	24.00	220.00
<i>Taxus media andersoni</i> , 1-yr., 2 1/4-in. rose pots, 4 to 6 ins.	18.00	170.00
<i>Taxus media brownii</i> , 1-yr., 2 1/4-in. rose pots, 4 to 6 ins.	20.00	180.00
<i>Taxus media hatfieldi</i> , No. 18, 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	20.00	180.00
<i>Taxus media hatfieldi</i> , No. 24, 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	20.00	180.00
<i>Taxus media hicksi</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	18.00	170.00
<i>Taxus media Moon's</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	18.00	170.00
<i>Taxus media thayerae</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	18.00	170.00
<i>Taxus media wardi</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	22.50	200.00
<i>Taxus media wellesleyana</i> , 1-yr., 2 1/4-in. rose pots, 4 to 6 ins.	18.00	170.00
<i>Thuja Douglas Golden</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	20.00	180.00
<i>Thuja occidentalis elegantissima</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	20.00	180.00
<i>Thuja occidentalis globe</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	20.00	180.00
<i>Thuja occidentalis pyramidalis</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	18.00	170.00
<i>Thuja occidentalis Siberian</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	18.00	170.00
<i>Thuja occidentalis Wintergreen Hetz</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	25.00	.....
<i>Thuja occidentalis woodwardi</i> , 1-yr., 2 1/4-in. rose pot, 4 to 6 ins.	18.00	170.00

<i>Taxus capitata</i> , seedling-grown, 2-yr., 3 to 6 ins.	\$10.00	\$90.00
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The above only a partial list of our potted lining-out stock.

We also grow seedlings and field liners. A complete catalog on request.

HEASLEY'S NURSERIES

Freeport Rd.

BUTLER, PA.

product has always stifled demand. Exploitation withers it. "Do it yourself" has merit for maintenance and as a hobby, but it also smashes thumbs and does not build a million good homes or a million good gardens. It has not, as a merely incidental example, elevated the nursery product, in most states, to so much as the dignity of a mechanics' lien.

Raise Trade Level

There exists a cycle of low enrollment in the landscape department of our universities because the demand and remuneration for graduates have not kept pace with those of other industries. The average high school graduate of today has seen or heard less about landscape architecture than did his grandfather 50 years ago. His impression of the nursery industry is most likely limited to garden marts and sales grounds, or a cross between hardware and shrubbery. Is the industry doing enough, by individual effort and example, to impress the soundness of planting by plan, the sentiment and beauty of the garden as a unit?

As of now, the nursery industry, compared with other industries, may be settling for peanuts, if pickup sales are to be the major interest. Both wholesale and retail nurserymen may do well to retain and sharpen the eyes toward the complete and the well-planned planting or garden; the creation of style and beauty, which, like Hattie Carnegie's hats, are beyond price; the basic purpose and dignity of ornamental plants, and the proper proportion of the homeowner's dollar for nursery stock.

GARDEN CENTER STOCK

[Continued from page 16]

equipment, especially lawn mowers, and they build up sales volume. The problem that the seller of power equipment always encounters is that of service. Eventually the mower or tractor will need service, and the customer naturally expects to get it from the one who sold him the equipment. Garden center operators who have enough volume of business in power equipment to maintain a service department have solved the problem, but small operators may find it a real burden. Unless service is available, the customer will be disgruntled, and the garden center may lose his business not only for power equipment but for nursery products as well.

Garden centers that have plenty

HY-GRO—the largest selling Soluble Plant Food in Florida is now going into nation-wide distribution! We know trying beats talking! So, this is our offer—

23% OFF

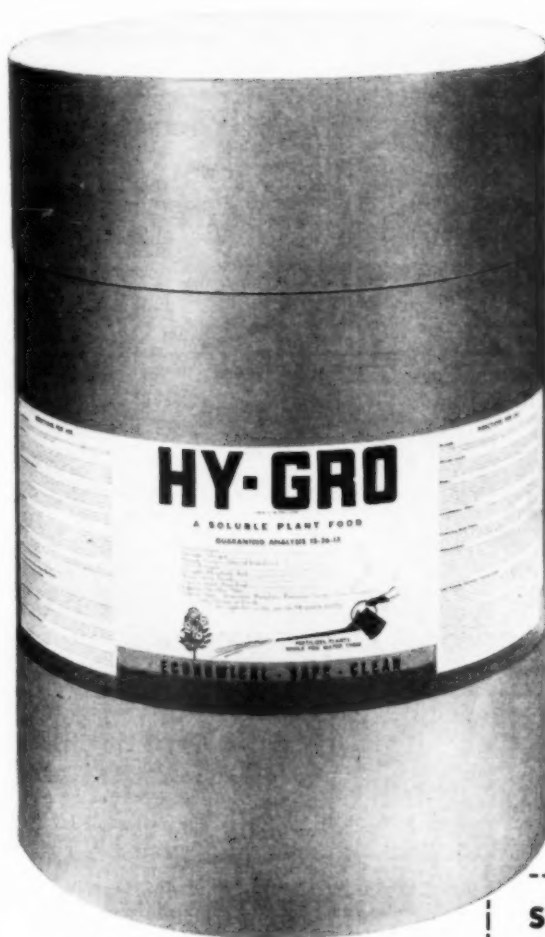
on a 100-lb. drum!

\$20

Jobber's Regular Price, \$26

Limit: 1 to a customer

Florida nurserymen are no different from you. They want a plant food that will do the best job for the least money. They've tested lots of them. **HY-GRO IS THEIR FIRST CHOICE!** Has been for years! Simply because HY-GRO has proved 10 times more effective than ordinary plant food. Now we're branching out. We know trying beats talking. So we offer you a 100-lb. drum at 23% off regular price. You save \$6.00 on the drum. But more important, it'll open your eyes to the most effective, best-producing soluble plant food a nurseryman ever had. Fill out and mail us the coupon below—now!



13-26-13
plus secondary elements

Hundreds of professional growers in Florida can tell you HY-GRO is 10 times more effective than ordinary plant food! Yes—10 times by actual tests!

Save 23%! Fill out this coupon now!

HY-GRO CORP., 1105 Maryland Ave., Baltimore 1, Md.

Please ship one 100-lb. drum of HY-GRO to:

FIRM NAME _____

ADDRESS _____

CITY _____ STATE _____

(Please check one): ORDERED BY _____

- ☐ Check enclosed. Send HY-GRO prepaid.
☐ Send COD. Ship F.O.B. Baltimore, Md.



MALLOW or HARDY HIBISCUS ANNIE J. HEMMING

Plant Patent 835

A beautiful, luminous red Mallow, selected for its rich color, overlapping petals, dark green foliage, medium size and lack of coarseness. Flowers in July, August and September—even until frost. A single two-year plant bore 250 six to seven-inch flowers in one season. Quite hardy.

Easy to grow and transplant.

An ideal plant for mail-order and garden store business.

2-yr., No. 1 Plants

\$17.50 per 10; \$150.00 per 100; \$1,250.00 per 1000.

Color plate available.

Attractive metal plant patent tag attached to each plant.

Write for trade list.

Chinese Chestnut.	Per 10	Per 100
Hemming strain		
2 to 3 ft.	\$ 6.00	\$55.00
3 to 4 ft.	7.50	70.00
4 to 5 ft.	10.00	
5 to 6 ft.	15.00	
6 to 7 ft.	20.00	
Abelia grandiflora	Each	
2 to 3 ft., B&B	\$1.75	

Tree Box	Each
3 to 4 ft., B&B	\$4.00
Elaeagnus pungens	
18 to 24 ins., B&B	1.50
Pfitzer Juniper	
24 to 30 ins., B&B	3.50
Ligustrum lucidum	
18 to 24 ins., B&B	1.75

Southern Magnolia	Each
2 to 3 ft., B&B	\$3.50
Pyramidal Arborvitae	
2 to 3 ft., B&B	3.00
Nandina domestica	
2 to 3 ft., B&B	2.25
Osmanthus ilicifolius	
2 to 3 ft., B&B	3.00

EASTERN SHORE NURSERIES, INC.
P. O. Box 743 EASTON, MD.

of room for display may find it desirable and profitable to carry a stock of garden accessories such as garden furniture, garden pottery, birdbaths, birdhouses, trellises and ornamental fencing. A shelf of books on flowers, plants, gardening and landscaping might prove profitable. If the demand for this accessory merchandise develops slowly, the capital invested in it may be tied up too long to be profitable and might better be invested in faster-moving merchandise. For these reasons the garden center operator should move into the accessory field cautiously.

Some garden center operators have found a line of gifts to be a profitable investment, especially those with a garden slant. Included in this category are vases, bowls, pots and baskets for flowers; planters, and plant stands. These are often sold with plants in them.

Store Displays

Proper display in the garden store is just as important as in the shade house and other outdoor sales areas. A neat, well-organized display makes a favorable impression on the customer, while one that is slovenly and disorganized discourages him. Related merchandise should be displayed together—all insecticides in

MULTIFLORA ROSE

(*Rosa multiflora japonica*)

Upright, thorny-type, hardy, northern-grown stock, for conservation, living fences and budding understock. Our soil makes the finest fibrous roots. Our high quality is well known.

Per 1000
1 to 3 mm. in caliper, 8 to 10 ins. in height. \$10.00

Free Packing

BROOKVILLE NURSERIES

Box 53, Northern Blvd.

GLEN HEAD, N. Y.

QUALITY LINERS

	Per 100
Colorado Blue Spruce.	
4 to 8 ins., transplants, 4-yr.	\$15.00
French Hybrid Lilacs, best varieties,	
6 to 12 ins., grafts, 1-yr.	27.50
Rhododendron Hybrids, red seed,	
4 to 10 ins., transplants	45.00
Pink-flowering Dogwood.	
10 to 15 ins., 2-yr. grafts	75.00
15 to 24 ins., 2-yr. grafts	85.00

Send for new Spring List.

POSSUM HOLLOW NURSERIES

6909 Henley St.
PHILADELPHIA 19, PA.

Specialists in PERENNIALS

SEEDS—PLANTS—BULBS
Perhaps America's largest list of unusual plant materials.
Wholesale catalog on request.
PEARCE SEED COMPANY
Dept. N, MOORESTOWN, N. J.

VANDERBROOK NURSERIES, INC.

Manchester, Conn.

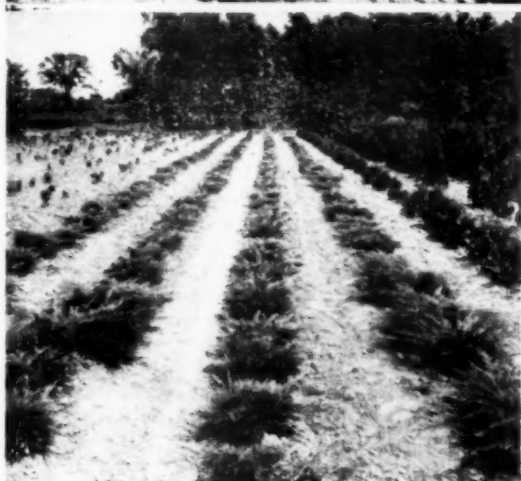
Get Acquainted SPECIAL

Ligustrum ibolium	Per 100
3 to 4 ft.	\$15.00
12 to 18 ins.	6.00
Barberry, thunbergii, green,	
3-yr., field-grown	
2 to 3 ft.	35.00
18 to 24 ins.	25.00
12 to 18 ins.	20.00
9 to 12 ins.	14.00

WANTED

To grow your lining-out and mail-order evergreens on contract.
If interested, write:

The STEDMAN NURSERIES
NEWFANE, N. Y.



Keep your nursery stock weed-free with CRAG Herbicide-1

Trade-Mark

You can use CRAG Herbicide-1 on many varieties of plants to keep them free of weeds—and to eliminate costly hand labor. Dugan Nurseries, Inc., of Perry, Ohio, used CRAG Herbicide-1 on forty-nine different species of nursery stock. The results were excellent!

Here are some of the plants that Dugan Nurseries treated successfully:

Ilex crenata convexa
Mountain laurel
Rhododendron hybrid seedlings
Pfitzer juniper
Colorado blue spruce
Globe arborvitae
French hybrid lilac
Canadian hemlock
Forsythia intermedia
Taxus hicksi
Taxus cuspidata
Redleaf barberry
California privet
Sweet mockorange
Viburnum teutana
Japanese bloodleaf maple
Flowering crabapple
Redleaf plum

You, too, can save money while keeping your fields free from weeds with CRAG Herbicide-1. And your stock will be healthier without competition from weeds.

Here's another advantage—since fewer cultivations are necessary, you avoid the possibility of cultivation damage to plants.

Get CRAG Herbicide-1 from your dealer now!



CARBIDE AND CARBON CHEMICALS COMPANY

A Division of Union Carbide and Carbon Corporation

30 East 42nd Street  New York 17, New York

"Crag" is a registered trade-mark of Union Carbide and Carbon Corporation.

MONEY DOES GROW FROM TREES

... when you plant healthy, field-grown stock... from **SUNCREST NURSERIES**

- A positive assurance of yearly increase in the value and beauty of your land.
- Quality that is second to none, for Christmas trees, reforestation, hedges, ornamentals, etc.
- Hardy, northern-grown seedlings and transplants with thick, all-year foliage.

Look at the unusually fine, healthy seedlings shown here. They're the kind of planting stock you get from Suncrest, where every order is carefully graded and packed under the supervision of trained forestry experts. Whether you plant for Christmas trees, ornamentals, hedges, windbreaks, reforestation or reclamation, it will pay you to investigate the savings you can make at Suncrest where only the finest specimens of many varieties are grown by specialists.

... Your Suncrest Tree Profits Never Stop Growing

Send For Illustrated Catalog And Planting Guide — FREE



SUNCREST EVERGREEN NURSERIES

Dept. AN BOX 305 HOMER CITY, PA.



AMERICAN RED PINE



BLACK HILL SPRUCE



MUGHO PINE



WHITE SPRUCE

one display, all plant foods in another and so on. This arrangement not only makes it easier for the customer to select what he wants, but the display is more impressive. Customers like to feel that they have a large selection from which to choose. A portion of all merchandise that is on sale should be on display. If it is not out where it can be seen by the customer it might as well not be in stock.

Successful merchants have long known that mass displays are the most effective. Supermarkets furnish good examples of this principle in practice. Canned goods, for example, are always displayed in large quantities, and the displays are kept filled to capacity at all times. If a display happens to have dwindled to one or two cans, the customer becomes suspicious of that particular item and will not buy it. But when the supply is replenished, the item will start selling again.

Display Visibility

Merchandise displayed slightly below eye level sells the best because it is more easily seen. If displayed much above or below eye level it often escapes the attention of the customer. Accordingly, tables, counters and racks should be designed to bring as much merchandise as possible into the customer's line of vision. The space under tables and counters can be used for storage.

Because the kind of merchandise offered for sale in the garden store varies from season to season, the display equipment should be so designed that it can be adapted to different types of merchandise. Bins for the display of bulbs, for example, can be placed on tables from which they can be removed when the bulb season is over, thus making room for merchandise which cannot be displayed in bins. Removable shelving can be constructed which may be placed on counters for additional display space when needed. It is best to keep displays low, so as not to obstruct the view across the store, and to change them from time to time to arouse customer interest. The position nearest the entrance catches the eye first; so if displays near the entrance are changed often, to show different or new merchandise each time, the customer will become better acquainted with the stock of the store.

HAROLD BENNETT, Marksboro, N. J., recently opened the Rockledge Nursery & Garden Center, at a corner of Route 94 and Silver Lake road.

ORNAMENTAL EVERGREENS

Trees and Shrubs

BAGATELLE NURSERY

P. O. Huntington Station, N. Y.

PIKES PEAK NURSERIES

Division of
Clearfield Bituminous Coal Corp.
INDIANA, INDIANA CO., PA.
Grower of Quality Nursery Stock
Current Trade List on Request

Quality Nursery Stock

Since 1885

BROWN BROTHERS CO.
EAST ROCHESTER, N. Y.

LILACS ON OWN ROOTS

Leading varieties. All sizes, 2 to 8 ft.
Write for list. Inspection invited.

SAMUEL FRASER NURSERY
Box 158
GENESEO, N. Y.

EVERGREENS

300 acres of choice Evergreens
ready for immediate resale

Write for list.

GARDNER'S NURSERIES, Inc.

ROCKY HILL, CONN.

QUALITY LINERS

In Wide Assortment
NURSERY SALES, INC.
525 Stevens Ave., P. O. Box 295
RIDGEWOOD, N. J.
Gl. 4-6848

CERTIFIED BLUEBERRY PLANTS

Rooted cuttings and larger plants.
16 varieties.

A. G. AMMON
Box 14 CHATSWORTH, N. J.

AZALEAS AND HEDGE PLANTS

Splendid stock.
Write for Price List.

DIAMOND STATE NURSERIES
MILFORD, DEL.

DECIDUOUS FOREST SEEDLINGS AND SHRUBS

DECIDUOUS SEEDLINGS

ASH, GREEN	Per100	Per1000
3 to 4 ft.	\$ 5.60	\$ 50.00
2 to 3 ft.	4.00	35.00
6 to 12 ins.	1.20	10.00
BOX ELDER		
3 to 4 ft.	5.60	50.00
2 to 3 ft.	4.00	35.00
6 to 12 ins.	1.20	10.00
BUFFALO BERRY		
4 to 6 ins.	2.50	20.00
CARAGANA ARBORESCENS		
3 to 4 ft.	9.00	80.00
2 to 3 ft.	6.00	55.00
6 to 12 ins.	2.10	18.00
4 to 6 ins.	1.25	9.00
CHERRY, WILD BLACK		
3 to 4 ft.	6.50	60.00
2 to 3 ft.	5.50	50.00
18 to 24 ins.	4.00	35.00
12 to 18 ins.	3.00	25.00
CHOKECHERRY		
4 to 6 ins.	2.00	15.00
CORNUS RACEMOSA		
2 to 3 ft.	7.50	...
6 to 12 ins.	3.00	25.00
CORNUS STOLONIFERA		
18 to 24 ins.	6.00	55.00
12 to 18 ins.	5.00	45.00
6 to 12 ins.	3.00	25.00
ELM, AMERICAN		
12 to 18 ins.	2.10	18.00
6 to 12 ins.	1.20	10.00
ELM, CHINESE		
3 to 4 ft.	7.50	65.00
18 to 24 ins.	2.90	25.00
12 to 18 ins.	2.10	18.00
6 to 12 ins.	1.20	10.00
HACKBERRY		
2 to 3 ft.	7.00	65.00
18 to 24 ins.	5.00	45.00
12 to 18 ins.	3.50	30.00
6 to 12 ins.	2.50	20.00
HONEYSUCKLE		
8 to 12 ins.	3.50	30.00
4 to 6 ins.	2.00	15.00

LILAC, COMMON

	Per100	Per1000
4 to 6 ins.	\$ 1.50	\$ 12.50
LILAC, JAPONICA		
2 to 3 ft.	11.00	100.00
6 to 12 ins.	4.50	40.00
LOCUST, BLACK		
3 to 4 ft.	5.50	50.00
2 to 3 ft.	4.00	35.00
18 to 24 ins.	2.90	25.00
12 to 18 ins.	2.10	18.00
6 to 12 ins.	1.20	10.00
LOCUST, THORNLESS HONEY		
3 to 4 ft.	8.50	75.00
12 to 18 ins.	2.40	20.00
6 to 12 ins.	1.70	14.00
MULBERRY, RUSSIAN		
3 to 4 ft.	5.50	50.00
2 to 3 ft.	4.00	35.00
18 to 24 ins.	3.00	25.00
6 to 12 ins.	1.20	10.00
OAK, BUR		
9 to 12 ins.	6.00	55.00
6 to 9 ins.	5.00	45.00
OAK, RED		
18 to 24 ins.	14.00	120.00
12 to 18 ins.	8.50	80.00
9 to 12 ins.	7.00	65.00
OLIVE, RUSSIAN		
4 to 5 ft., tree form	60.00	500.00
4 to 5 ft.	15.00	120.00
3 to 4 ft.	10.00	90.00
6 to 12 ins.	2.40	20.00
PRUNUS BESSEYI (Western Sand Cherry)		
2 to 3 ft.	7.00	65.00
18 to 24 ins.	6.00	55.00
PRUNUS AMERICANA (Native Plum)		
No. 3, about 2 1/16-in. cal.	2.10	18.00
4 to 6 ins.	1.25	9.00
RIBES ODORATUM		
18 to 24 ins.	7.00	65.00
12 to 18 ins.	5.00	45.00
6 to 12 ins.	3.50	30.00
REDBUD		
6 to 12 ins.	4.50	40.00
4 to 6 ins.	2.00	15.00

ROSA MULTIFLORA

	Per100	Per1000
2 1/2 to 16-in. cal.	\$ 3.00	\$ 25.00
8 to 15 ins.	2.00	15.00
WALNUT, BLACK		
3 to 4 ft.	10.00	80.00
2 to 3 ft.	7.00	60.00
18 to 24 ins.	4.50	40.00
12 to 18 ins.	3.50	30.00
6 to 12 ins.	2.50	20.00

BERRY PLANTS

	Per100	Per1000
SODUS RASPBERRY		
No. 1, transplants	\$9.00	\$80.00

SHRUBS

	Per10	Per100	Per1000
BARBERRY, THUNBERGI			
18 to 24 ins.	\$3.50	\$33.00	\$300.00
15 to 18 ins.	3.10	27.00	240.00
COLUTEA ARBORESCENS (Bladder Senna)			
3 to 4 ft.	6.50	60.00	...
2 to 3 ft.	5.50	50.00	...
18 to 24 ins.	4.00	35.00	...
12 to 18 ins.	2.50	22.00	...
CORNUS ALBA SIBIRICA			
4 to 5 ft.	8.00	75.00	...
18 to 24 ins.	4.00	35.00	...
12 to 18 ins.	2.40	21.00	...
CORNUS GOLDEN TWIG			
18 to 24 ins.	4.00	35.00	...
12 to 18 ins.	2.40	21.00	...
CYDONIA JAPONICA			
2 to 3 ft.	5.00	45.00	400.00
18 to 24 ins.	3.80	33.00	300.00
12 to 18 ins.	2.90	25.00	...
LILAC, JAPONICA			
3 to 4 ft.	8.00	...	...
2 to 3 ft.	6.50	60.00	...
18 to 24 ins.	4.50	...	...
12 to 18 ins.	3.00	...	...
LILAC, COMMON PURPLE			
3 to 4 ft.	6.50	60.00	...
18 to 24 ins.	4.00	35.00	...
LILAC, PERSIAN RED			
18 to 24 ins.	4.50	40.00	350.00

LILAC, FRENCH—named varieties

	Per 10	Per 100
3 to 4 ft.	\$11.00	...
2 to 3 ft.	8.50	\$80.00
18 to 24 ins.	6.50	60.00
12 to 18 ins.	4.50	40.00

s—single d—double
x—grades available

	3 to 4 ft.	2 to 3 ft.	18 to 24 ins.	12 to 18 ins.
Alphonse Lavallee, d, lilac	X	X	X	..
Belle de Nancy, d, rose, wh. ctr. ..	..	..	X	X
Charles Joly, d, purple	X	X	X	X
Charles A., s, red ....	..	X	X	X
Decolaine, azure-blue ....	..	..	X	X
General Sheridan, d, white ....	..	X	X	X
Jacques Callot, s, violet ....	..	..	X	X
Michel Buchner, s, lilac ....	..	X	X	X
Mme. Abel Chateau, d, white ....	..	..	X	X
President Grey, d, bluish-lilac ....	..	X	X	X
Pres. Lincoln, s, Wedgwood-blue ..	..	..	X	X
Vauban, d, lilac	X	X	X	..
Wm. Robinson, d, reddish-purple. ....	..	X	X	X

	Per10	Per100	Per1000
PHILADELPHUS GLACIER			
2 to 3 ft.	\$5.50	\$50.00	...
18 to 24 ins.	4.50	40.00	...
12 to 18 ins.	3.20	28.00	...
PHYSOCARPUS OPULUS (Common Ninebark)			
3 to 4 ft.	6.00	55.00	\$500.00
2 to 3 ft.	5.00	45.00	400.00
18 to 24 ins.	4.00	35.00	300.00
PRIVET, AMUR RIVER			
2 to 3 ft., 4 canes	21.00	180.00	...
18 to 24 ins.,			
3 canes	16.50	140.00	...
12 to 18 ins.,			
3 canes	12.00	100.00	...
SPIRAEA BILLIARDI			
3 to 4 ft.	6.00	55.00	...
2 to 3 ft.	5.00	45.00	400.00
18 to 24 ins.	4.00	35.00	300.00
12 to 18 ins.	2.90	25.00	220.00
SPIRAEA FROEBELI			
18 to 24 ins.	4.00	35.00	300.00
15 to 18 ins.	3.50	30.00	270.00
12 to 15 ins.	3.00	27.00	250.00

	Per10	Per100	Per1000
SPIRAEA MULTIFLORA			
3 to 4 ft.	\$6.00	\$55.00	...
2 to 3 ft.	5.00	45.00	\$400.00
18 to 24 ins.	4.00	35.00	300.00
SPIRAEA VANHOUTTEI			
2 to 3 ft.	4.00	35.00	300.00
18 to 24 ins.	3.20	28.00	240.00
12 to 18 ins.	2.40	21.00	180.00
TAMARIX HISPIDA			
4 to 5 ft.	7.00	65.00	600.00
3 to 4 ft.	5.50	50.00	450.00
2 to 3 ft.	5.00	45.00	400.00
18 to 24 ins.	4.00	35.00	300.00
12 to 18 ins.	2.90	25.00	...
VIBURNUM AMERICANA			
12 to 18 ins.	4.00	35.00	...
6 to 12 ins.	2.10	18.00	...
VIBURNUM DENTATUM			
2 to 3 ft.	5.50	50.00	...

	Per10	Per100	Per1000
VIBURNUM LENTAGO			
2 to 3 ft.	\$5.50	\$50.00	\$450.00
18 to 24 ins.	4.50	40.00	...
VIBURNUM OPULUS			
18 to 24 ins.	5.00	45.00	...
VIBURNUM SIEBOLDI			
18 to 24 ins.	4.50	...	...
12 to 18 ins.	3.50	30.00	...
6 to 12 ins.	2.10	18.00	...

VINES

	Per10	Per100
AMPELOPSIS VEITCHI		
2-yr., No. 1	\$3.00	\$25.00
2-yr., Medium	2.10	15.00
Planters, No. 3 ....	...	8.00

Please note—When phoning, wiring or writing, give P. O. Box and street address. Otherwise mail may not reach you as post office will not give directory service.

PLUMFIELD NURSERIES, INC.

P. O. Box 7

Phone: Park 1-3622

FREMONT, NEB.

Grafted Stock for Spring, 1956, Delivery

Grafts are normally ready for shipment after April 15. Since there is a possibility of damage by late spring frost, kindly give a shipping date when you feel it is safe to plant without frost injury.

	Per 10	Per 100		Per 10	Per 100
<i>Ilex opaca</i> femina, our selection of the following named varieties:			<i>Parrotia persica</i>	\$6.50	\$60.00
Cheerful	\$7.00	\$60.00	<i>Thuja orientalis aurea nana</i>	5.00	40.00
Christmas Tide	Mae		<i>Thuja orientalis conspicua</i>	5.00	40.00
Della Bradley	Miss Helen		<i>Thuja orientalis elegantissima</i>	5.00	40.00
Joyce	Osa		<i>Cornus florida alba plena</i>	6.00	50.00
Lake City	Richards		<i>Cornus florida rubra</i>	6.00	50.00
	Per 10	Per 100	<i>Cornus florida rubra Prosser</i>	7.50	65.00
<i>Magnolia rustica rubra</i>	\$7.00	\$60.00	<i>Hamamelis mollis</i>	6.00	50.00
<i>Magnolia soulangeana</i>	7.00	60.00	<i>Hamamelis vernalis</i>	6.00	50.00
<i>Magnolia soulangeana nigra</i>	7.00	60.00			
<i>Magnolia stellata rubra</i>	7.50	65.00			

TERMS: Prices in this list are net cash F.O.B. Mountain View, N. J., but the usual terms will be extended to those of established credit. No goods sent C.O.D. unless 25% of amount is sent with order. Five of one kind will be billed at the 10 rate; 25 at the 100 rate; 250 at the 1000 rate. From those not acquainted with our stock, a trial order will be appreciated. Packing extra at cost.

HESS' NURSERIES

MOUNTAIN VIEW, N. J.

<i>Azalea mollis</i> , Orange and red, 4-year, transplanted seedlings, 6 to 10 ins.	\$0.45
<i>Cotoneaster dielsiana</i> , bare-root, 18 to 24 ins. ....	.75
<i>Cotoneaster divaricata</i> , bare-root, 18 to 24 ins. ....	.75
<i>Thuja occidentalis pyramidalis</i> , B&B, 3 to 4 ft.	2.50
<i>Viburnum carlesi</i> 2-year seedlings, transplanted, 12 to 18 ins. ....	.75
2-year grafts, transplanted, 18 to 24 ins.	1.25
4-year grafts, twice transplanted, B&B, 18 to 24 ins.	1.75
4-year grafts, twice transplanted, B&B, 2 to 3 ft.	2.00

THE RHODE ISLAND NURSERIES
NEWPORT, R. I.

PLANT PROPAGATION PRACTICES, by James S. Wells. Detailed procedures for propagating selected plants. **\$7.50.** American Nurseryman, Chicago 4, Ill.

LINING-OUT STOCK

IN WIDE ASSORTMENT

Hardy Azaleas, Pink Dogwood, Jap. Red Maples, Old English Boxwood, Lilacs (French Hyb.), Evergreens, etc., in 1, 2 and 3-yr. transplants, at competitive prices. Write for list.

DEERFIELD NURSERIES

DEERFIELD STREET P. O., N. J.

LINING-OUT TAXUS

4-yr., XX, field beds, for spring. *Henryi*, *cliffoni*, *cuspidata* spreading and *Vermeulen*, 9 to 12 ins., 50c each.

Net in lots of 25. 10% discount for 250 assorted. F.O.B. Lebanon, N. J.

Free packing for cash with order.

MOUNTAINVILLE FOREST NURSERIES
LEBANON, N. J.

VERKADE'S OFFERS

2000 <i>Azalea amoena</i>	Each	25c
500 <i>Azalea calendulacea</i>		25c
1000 <i>Azalea ledifolia alba</i>		25c
1500 <i>Azalea vaseyi</i>		25c
500 <i>Cryptomeria japonica lobbi compacta</i>		75c
5000 <i>Taxus cuspidata capitata</i>		5c
5000 <i>Taxus cuspidata capitata</i>		10c

VERKADE'S NURSERIES
NEW LONDON, CONN.

VARIEGATED WEIGELA CUTTINGS

Weigela Variegata Nana

Mature shrubs make attractive container stock for sales lots. Heavy, outdoor frame-grown. Completely dormant. \$12.00 per 100 \$100.00 per 1000

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Growers of Quality
Taxus, Ilex and other Ornamentals.
Ask for list.

DEL-MAR-VA NURSERIES
LINCOLN, DEL.
Phone: Milford, Delaware 4445

EASTERN STUDENT AWARD

A \$200 scholarship grant of the Connecticut Nurserymen's Association for an outstanding student majoring in nursery management in the 2-year short course at the Ratcliffe Hicks school of agriculture went this year to Paul O. Holdridge, Ledyard, Conn. Mr. Holdridge has been brought up in the nursery business, his family operating the Holdridge Farm Nursery, Ledyard.

In addition to being an honor student, Mr. Holdridge participates in a variety of school activities. He was cochairman of the fall, 1955, horticulture show and is vice-president of the Horticulture Club. He has been active in intramural basketball. Mr. Holdridge, his wife and baby daughter live in a trailer near the campus much of the school year. During the busy season, he commutes from Ledyard, working at the nursery evenings and week-ends. Prior to entering the Ratcliffe Hicks school, Mr. Holdridge was awarded a farm bureau scholarship.

The Connecticut Nurserymen's Association at its last annual meeting set up another \$200 scholarship, to be given to the senior in the Ratcliffe Hicks college of agriculture, majoring in nursery management or landscape design, with the highest scholastic standing at the end of his junior year. All courses in the college are 4-year ones. E. W. H.

MICHIGAN STATE AWARDS

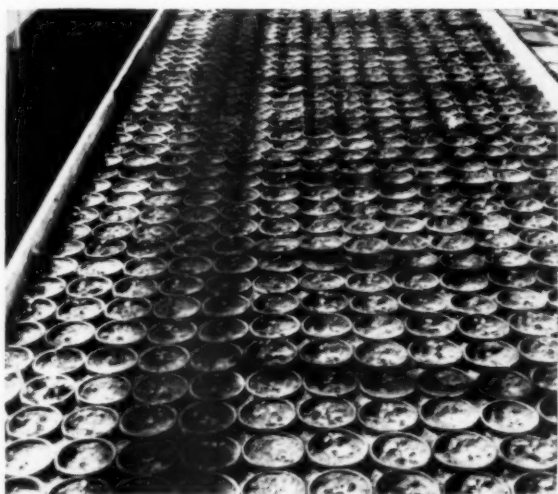
Awards were recently made as follows to outstanding students pursuing curriculums in ornamental horticulture at Michigan State University, East Lansing:

The Berryhill Nursery scholarship in the amount of \$100 was awarded to Carl Yordanich, South Bend, Ind., at the winter meeting of the Michigan Association of Nurserymen. The scholarship is given by the Berryhill Nursery, Springfield, O., as a means of assisting a worthy scholar to obtain a higher education in the field of nursery management through attendance in a 2-year training course program.

The Michigan Association of Nurserymen presented the outstanding student award, a loving cup, to George Kay, Michigan City, Ind., at a recent awards banquet held on the campus of Michigan State University. The award is given for scholastic achievement in the 2-year course in nursery and landscape management.

The department of short courses gave George Kay a hand-tinted picture of Beaumont Tower, a campus

Save your plants from nematodes to **SPEED SALES!**



NEW V-C 13 NEMACIDE

protects growing plants

HERE is the new, easy way to protect your nursery stock from nematodes — the microscopic worms that attack plant roots and kill your sales even when they don't quite kill your plants. Stop fussing with old-style products that often kill plants while they are killing nematodes. Clean out nematodes with new V-C 13 NEMACIDE.

Tests have shown V-C 13 has killed nematodes without harming growing plants. Use V-C 13 for all kinds of ornamentals in the greenhouse, under shade, or in the field. The cost is often less than 1 cent per plant of saleable size.

Just mix V-C 13 with water and soak the soil to full root depth of plants. Or mix V-C 13 with the soil before you plant. V-C 13 kills nematodes in the soil and discourages future attacks. Use V-C 13 yourself, and recommend it to customers.

Get V-C 13 now — to help speed plant sales and customer satisfaction!

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NOW



Now available in four handy sizes: 8-ounce bottle; 1-quart bottle (2½ lbs.); 1-gallon jug (10 lbs.); 5-gallon drum (50 lbs.). Each gallon treats 800 to 1,600 square feet of nursery plantings.

Virginia-Carolina Chemical Corporation
401 East Main Street, Richmond 8, Virginia

Please send me literature on new
V-C 13 Nemacide. AN

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CITY _____ STATE _____

NORTHERN-GROWN STOCK

LANDSCAPE-SIZE SHRUBS		
	Per 10	Per 100
<i>Clethra alnifolia</i>	\$ 8.00	\$ 70.00
3 to 4 ft., clumps	\$ 8.00	\$ 70.00
4 to 5 ft., clumps	15.00	125.00
<i>Ilex verticillata</i>		
2 to 3 ft., clumps	6.00	50.00
3 to 4 ft., clumps	7.00	60.00
<i>Viburnum cassinoides</i>		
2 to 3 ft., clumps	6.00	50.00
3 to 4 ft., clumps	8.00	70.00
<i>Viburnum dentatum</i>		
2 to 3 ft., clumps	5.00	40.00
3 to 4 ft., clumps	7.00	60.00

SWAMP RED MAPLES—SUGAR MAPLES

	Price Each	Per 10	Per 100
<i>Acer rubrum</i> and <i>Acer saccharum</i>			
8 to 10 ft., ¾ to 1-in. cal.	\$2.50	\$20.00	
10 to 12 ft., 1 to 1½-in. cal.	3.00	25.00	
10 to 14 ft., 1¼ to 1½-in. cal.	4.00	35.00	
12 to 15 ft., 1½ to 1¾-in. cal.	6.00	50.00	

CLUMP BIRCH

	Per 10	Per 100
<i>Paper Birch</i>		
4 to 6 ft., 3 stems and up	\$30.00	.....
6 to 8 ft., 3 stems and up	40.00	.....
<i>Gray Birch</i>		
4 to 6 ft., 3 stems and up	25.00	\$200.00
6 to 8 ft., 3 stems and up	35.00	250.00
8 to 10 ft., 3 stems and up	50.00	400.00

All stock is first-quality collected material. Send for complete wholesale list of Hardy Native Ferns, Lilies, Orchids, Wild Flowers, Trees, Shrubs and Evergreens. We do not have Japanese beetle.

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PACHYSANDRA

The ideal permanent evergreen ground cover plant for shady and semishaded areas in all climates.

	Per 100 Prepaid	Per 1000 F.O.B. here	Per 1000 for 10,000 or more in same shipment
Strong, well-rooted, 1-yr. plants; propagated in soil frames	\$4.25	\$38.50	\$36.50
2 to 3-yr., field plants	6.00	55.00	50.00

All available for immediate shipment March through December. Shipments anywhere, including Canada. Good packing free. We grow other good ground cover plants, too. Send for price list.

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Rhododendrons
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Perennials, Roses
All Nursery Items

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Send us your Want List.

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ican and English holly. 3 to 6-inch pots.
Field plants, 2 to 5 ft. Send for list.

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SHEPARD NURSERIES

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ORNAMENTAL NURSERY STOCK

Truckloads only, no boxing.
60 acres growing. Skaneateles, N. Y.

structure, for his scholarship and leadership while a student in the 2-year course in nursery and landscape management.

The Michigan Association of Nurserymen presented the "Manual of Cultivated Plants," by L. H. Bailey, to George McVey, Bennett, Wis., for scholastic achievement in the 4-year degree program in ornamental horticulture which is conducted at Michigan State University.

PLANTING OF PARKING AND PUBLIC AREAS

[Concluded from page 11]

around the tree so as to contrast with the paving. These bricks, coupled with the small soil bed, do tend to keep persons who are walking or are riding bicycles away from the tree. Those on bicycles prefer a smooth surface to ride upon, and the walker is of much the same idea.

Another consideration when planting public areas, and the home, too, is to avoid planting shrubs too close to walks or roads from which snow must be eventually removed. So often a hedge is planted flush with the sidewalk or driveway, and when winter rolls around there is no place along the sides to shovel snow. The time to think about this is, of course, before the planting is done.

Homo sapiens is quite a fellow, on the whole, but he (or she) can give the landscape planner a hard time.

NORTH JERSEY ELECTION

At the annual meeting of the North Jersey Metropolitan Nurserymen's Association held March 15, at Paterson, N. J., the following officers were elected for 1956: William H. Hallicy, Clifton, N. J., president; Hans Hess, Hess' Nurseries, Mountain View, N. J., vice-president; Engel Zegers, Mountain View, N. J., treasurer, and Edward S. Wyckoff, the Red Spade Nursery, Morristown, N. J., secretary.

Elected for a 3-year term on the executive committee were Charles Ur, Montville, N. J., and Robert G. Weber, ABC Nursery, Dover, N. J. Edward S. Wyckoff, Sec'y.

HARRY F. COGDAL, Route 2, South Haven, Mich., who has been growing asparagus crowns for about five years, is now lining out evergreens, roses and ornamental trees on 98 acres to grow for retail sale. Mr. Cogdal is a graduate in horticulture from the University of Illinois.

A picture of **HELLER-GRO**[®] *Results*



BEFORE May 25. American Elm apparently dying, smothered by concrete walk, driveway and garage floor. Heller-Gro was foliar fed.

TAKE THE WORD OF MEN WHO USE **HELLER-GRO**

"I now use Heller-Gro in conjunction with about 80 per cent of my foliage spraying" . . . Craig L. Halvorson, Halvorson Tree Service, Pittsfield, Mass.

"Heller-Gro will not burn" . . . Karl Amalia, Amalia Tree Surgeons, Inc., Manchester, Mass.

"Heller-Gro has now been fed to all the trees in Audubon Park, including the famous old live oaks" . . . George Douglas, Supt., Audubon Park, New Orleans, La.

HELLER-GRO is composed entirely of USP chemicals.

HELLER-GRO dissolves easily and completely; never forms a residue.

HELLER-GRO solution will not burn roots or foliage.

HELLER-GRO may be used for root or foliage feeding.

HELLER-GRO is compatible with all insecticides.

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Toronto, Ont., Canada	Newtown Square, Pa.

THE COMPLETE PLANT FOOD made from dependable USP chemicals

Heller-Gro is a concentrated paste plant food that is compatible with all insecticides. It produces sturdy root growth and luxuriant, deep green foliage. It helps you get that "well-fed" look in lawns, trees, flowers and shrubs — helps you restore the vitality that comes only with good plant nutrition.

AFTER June 18. After Heller-Gro was applied . . . same tree recovered to continue sturdy, natural growth.



Sold in
3 1/4-oz. tubes
1-lb. cans
3-lb. cans
50-lb. pails.

WRITE FOR FREE TRIAL SAMPLE

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COLORADO SPRINGS, COLO.

PRICES AND PROFITS

Comments on Business Management in the Nursery

By John J. Pinney

WAGE PROBLEMS

The increase of the minimum wage to \$1 per hour under the federal wage and hour law went into effect March 1. There is no change in the law, only an increase in the minimum wage, but this has caused many nurserymen to give their businesses a critical analysis to determine to what extent they are affected by the provisions of the act.

The over-all effect of the new minimum wage will be to raise the wage level in the entire industry. Although your business may not be subject to the law, you may have a neighbor who has to comply. Anything that affects him will eventually affect you, because all business competes in the labor market.

Let us consider a hypothetical case: Nurseryman Brush sells only within the state; in other words he does an intrastate business. Since the federal wage and hour law does not apply to him, he is paying only 65 cents an hour for common labor. (It is true that some nurseries still are paying wages of only 65 cents per hour.) Near the nursery is a factory that does an interstate business and consequently must comply with federal law. The factory has been paying the former federal minimum wage of 75 cents per hour, but now it must pay \$1 per hour. The 10-cent difference in wages formerly paid by the nurseryman and factory did not make the nursery workers too unhappy; they might have preferred the outdoor work despite the lower wage.

But now, with a difference of 35 cents per hour, things will be different. Smith is paid 65 cents per hour working for the nursery, while his neighbor Jones gets \$1 per hour working in the factory. The 35-cent difference is too much! Smith begins to think that he ought to get that much also — he is just as good a man as Jones. Either he quits his job in the nursery and goes to work in the factory or, still preferring to work in the nursery, hits his boss for a raise. If he does not get it, he will be unhappy over what to him seems an unfair discrepancy in wages. It is likely that thereafter he will be less valuable to his employer.

Before the \$1 minimum went into

effect, nurseries were already at a disadvantage in the labor market. Wages paid nursery labor are among the lowest paid by any business. With a higher minimum in effect, the disadvantage is still greater. The higher minimum is bound to result in a higher scale of wages in those enterprises with which nurserymen must compete for labor.

Trade Pressure

Nurserymen also compete with each other for labor. Sometimes they are in neighboring communities, oftentimes in the same town. If one of them has to pay higher wages to comply with the law, other nurseries will find it harder to get help, because naturally workers will want to go where they get the highest wages. A situation of that kind will eventually force up the wages of all the nurseries.

One thing is fairly certain: Wages are not going to come down but will

continue to rise just as they have been doing for the past 25 years. For one to say that these wage increases might be a good thing for the nursery business would be to make himself unpopular with nurserymen. But there could be a great deal of truth in that observation, in spite of the fact that nurserymen cannot afford to pay much higher wages than they are paying now. Even those who are paying the highest wages are not able to meet the wage scale of most industries.

To explain this seeming paradox: It is a commonplace to hear a nurseryman say: "I am paying my men all they are worth." In that remark is the clue to what ails the nursery business.

Question of "Worth"

The nurseryman who says that he is paying his men all they are worth is likely expressing an honest opinion. Why is it then that these same men probably could go to work in a manufacturing plant at a starting wage higher than the nurseryman paid them? It is not at all uncommon for a laborer in a nursery who has been paid \$1 an hour or less to take a job in industry and in a short time earn twice as much as he did in the nursery. Surely the manufacturer is not

ROOTED CUTTINGS and TRANSPLANTS

	Rooted Cuttings Per 100	1-yr. Transplants Per 100
ARBORVITAE		
Globosa	\$8.00	\$18.00
Woodwardi	8.00	18.00
Elegantissima	8.00	18.00
Pyramidal	8.00	18.00

JUNIPER		
Pfitzer	8.00	18.00
Glauc. Hetzi	8.00	18.00
Sabina	8.00	18.00
Andorra	9.00	....

TAXUS		
Cuspidata, spreading	8.00	16.00
Capitata, upright	8.00	16.00
Hicksi	8.00	16.00
Intermedia Vase	8.00	....

ILEX		
Crenata Hetzi	9.00	18.00

ACER		
Palatum Atropurpureum (Japanese Red Maple)	9.00	15.00

Cuttings ready approximately May 15; transplants shipped after April 1. 200 of a variety 5% discount. Shipped bare-root, packed in moss.

GORTON'S NURSERY

R. D. No. 1, HARBORCREEK, PA.
(Nursery located 8 1/4 miles east of Erie, Pa., on U. S. Hwy. No. 5)

SURPLUS STOCK

Must be disposed of this spring. To be dug and lifted by buyer at his cost.

White Pine and White Spruce
2 to 3-in. cal.,
12 to 18 ft. \$12.00

European Larch
2-in. cal., 12 to 18 ft. 10.00

Red Pine
2 to 3-in. cal., 8 to 10 ft. 12.00
2-in. cal., poor
specimens, 10 ft. 4.00

Scarlet Maple
2-in. cal., 12 to 18 ft. 10.00

Pink-flowering Dogwood
2-in. cal., 8 to 10 ft. 12.00

Ilex cornuta burfordi
1-gal., 18 to 24 ins. 2.00
4-in. pot, 12 to 18 ins.80

English Holly
2-gal., 18 to 24 ins. 4.00
1-gal., 18 to 24 ins. 2.00

English Holly, variegated
6-in. pot 2.00

Many other varieties.

SPRING LAKE FARMS, INC.

60 Wall Church Rd., Belmar, N. J.
Phone: Glbson 9-6858
for appointment.



Famous MONROVIA NURSERY Says REYNOLDS ALUMIPOTS*

"Open a new era
in the industry"



MONROVIA NURSERY CO.

March 2, 1956

Reynolds Metals Company
General Sales Office,
Louisville 1, Kentucky
Attention: Mr. David P. Reynolds
Vice President of Sales

Dear Mr. Reynolds:

We are pleased to report the results of research tests performed at Monrovia Nursery on lining out stock grown in Reynolds Alumipots. The growth and appearance of the plants are most satisfactory. The Alumipots maintain even moisture which results in considerable labor economies. The Alumipots result in less handling. The plants are shipped in the same pots in which they are grown. They are lighter and easier to pack. We are now growing about 100,000 plants in Alumipots and intend to increase the number as rapidly as possible. Since we are constantly searching for methods to pass savings and conveniences on to our customers, we can truthfully say that the Alumipots have opened the door to a bright new era in the nursery industry.

Yours very truly,
MONROVIA NURSERY COMPANY

Martin W. Usrey
Martin W. Usrey
General Manager



The Monrovia Nursery Company will not accept any order unless it is placed with a member of the Reynolds Metals Company. It is the policy of the company to accept no orders unless they are placed with a member of the company.



Reynolds Alumipots*

Approximately 1/20th the weight of clay. Broad base design helps prevent tipping. Requires less water and fertilizer, resulting in great economies. Available in brilliant, eye-catching silver, green, gold and red. Sizes 2 1/4" and 3", also square-topped 2 1/4". 4" Alumipot available in May.



Reynolds Alumipaks*

8 1/4" x 4 1/4" x 2" deep, rounded corners. To hold a number of plants, serving all the way from seed flat to retail sale. Standard in natural aluminum. Available on quantity order in gold, red, green.

Best Container Available for Plant Merchandising
These bright, clean containers dress up your merchandise and add important sales-appeal... especially if you take advantage of the nationally promoted REYNOLDS WRAP ALUMINUM PACKAGING SEAL.....



*Trademarks, Reynolds Metals Company

ORDER THROUGH ANY OF THESE DISTRIBUTORS:

Aluminum Packages, Inc.
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American Florist Supply Co.
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American Bulb Co.
New York 1, N. Y.

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Chicago 6, Illinois

REYNOLDS ALUMINUM

See "FRONTIER," Reynolds great dramatic series, Sundays, NBC-TV Network.



Norway Spruce, 2-yr., S.

	Per 100	Per 1000	Per 1000 at rate
--	------------	-------------	------------------------

SCOTCH PINE

4 to 8 ins. (2-0)	\$5.00	\$25.00	\$20.00
3 to 6 ins. (2-0)	4.00	20.00	18.00
3 to 6 ins. (3-1)	6.00	40.00	30.00

AUSTRIAN PINE

4 to 8 ins. (3-1)	8.00	50.00	....
2 to 4 ins. (2-1)	5.00	35.00	....

NORWAY SPRUCE

5 to 10 ins. (2-0)	8.00	40.00	35.00
3 to 6 ins. (2-0)	5.00	30.00	25.00

100 at 100 rate; 1000 at 1000 rate

5000 and up at 10,000 rate.

TERMS: Cash with order, otherwise 1/3 deposit and balance C.O.D. Packing at cost. Payment in advance earns free packing.

PALLACK BROS. NURSERIES, INC.R. D. I. HARMONY, PA.
Phone: Zelienople 789 or 644**BIG**We have one of the
largest available sup-
plies of big specimen
material, including:**TAXUS REPANDENS**

- TAXUS CUSPIDATA
- HYBRID RHODODENDRON
- TSUGA CANADENSIS
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- AZALEA
- ILEX BUXIFOLIA
- ILEX OPACA
- TAXUS FASTIGIATA

For 38 years
one of America's
leading nurseries**TOWSON
NURSERIES
INC.**Office and Nurseries
P. O. Box 175, COCKEYSVILLE, MD.

paying him more than he is worth! The only logical answer is that he is worth more to the manufacturer than he was to the nurseryman.

Why is this? He is the same man: changing jobs does not endow him with some new powers that enable him to work better or produce more. The only conclusion one can reach is that the product he produces in the factory is more valuable than the nursery stock he formerly produced.

The value of a product is measured by the price that is put on it. Apparently manufacturers appraise their products high enough so that they not only can pay their employees good wages but can spend ample sums for promotion and still earn a good profit. It is quite the other way in the nursery business. With few exceptions, nurserymen pay their employees substandard wages, and the industry as a whole spends pitifully small amounts for product promotion.

Offsetting Raises

By way of illustration let us suppose that nurseryman Brush, referred to earlier in this article, decides to raise his prices 25 per cent. That might be impractical in some lines of business, but it should be feasible in the nursery business, the products of which have been underpriced for a generation or more. At any rate, Mr. Brush raises his prices 25 per cent. This means that for every dollar's worth of nursery stock the employees produced formerly, they are now turning out stock worth \$1.25. If they are the same employees working the same hours and producing the same amount of stock, Mr. Brush can now afford to pay them higher wages.

When the wages of the employees in an industry are increased, the price of the product they produce is raised. If the steel industry grants a wage increase, it is immediately offset by higher prices for steel. The price of automobiles goes up when the workers get a hike in pay. Higher wages for railroad workers are almost always followed by higher freight rates. The story is different in the nursery business. Since World War I, wages have increased about 400 per cent, during which time the prices of nursery stock have advanced little. The industry has absorbed the greatly increased cost of production, but it now has reached a point where it can no longer continue to do so. There are still those in the nursery business who say that it is not possible to raise prices, but if the industry is to survive, prices must be raised.

WILMAT HOLLY LINERS

For spring delivery. Well-established for bedding in May. 3-in. pots.

English Hollies

	Per 100
Altaclarensis	\$55.00
Belgica	55.00
Ciliata major	65.00
Shepherd	55.00
Marnocki	45.00
Robinson (male)	45.00
Fox (male)	45.00
Alcornis	45.00
Argenteo marginata	65.00
Fisher	45.00
Handsworth	45.00

Chinese Hollies

Cornuta, male and female, hardy zone	45.00
Cornuta rotunda	55.00
Pernyi, male and female	45.00

American Hollies

Arden	45.00
Cardinal	45.00
Connecticut selections	65.00
Heavy fruiter	65.00

Quality, variety and livability guaranteed.

WILMAT HOLLY CO.

Box 304 NARBERTH, PA.

**HARDY NATIVE
EVERGREENS**

Collected Stock

Canadian Hemlock, Balsam Fir

	Per 100	Per 1000
2 to 4 ins., S.	\$1.00	\$ 5.00
3 to 6 ins., S.	2.00	10.00
6 to 9 ins., S.	3.00	20.00
9 to 12 ins., S.	7.00	45.00
12 to 18 ins., S.	9.00	70.00

All first-quality stock, well rooted and packed in sphagnum moss.

Send for trade list.

Cash, please.

R. M. COLE

Box 37 CHARLOTTE, VT.

LAST CALL

	Per 100	Per 1000
BOSTON IVY		
2-yr., T., No. 1	\$30.00	\$250.00
2-yr., T., No. 2	17.50	150.00
2-yr., T., No. 3 (shorts)	10.00	75.00
CORNUS FLORIDA (White Dogwood)		
Below grafting size	5.00	30.00
Grafting and budding size	7.50	60.00
Above grafting size	12.50	100.00
2-yr., T., 18 to 24 ins.	25.00	200.00
2-yr., T., 18 to 36 ins.	50.00	400.00
CYDONIA JAPONICA, seedlings		
1-yr., 10 to 15 ins.	5.00	40.00
1-yr., 15 to 21 ins.	7.50	60.00
CALIFORNIA PRIVET		
1-yr., cuttings, 10 to 24 ins.	6.00	50.00
CORNUS FLORIDA RUBRA		
1-yr., grafts, field-grown	75.00	700.00
Free packing for cash with order.		
BROUWER'S NURSERIES		
BOX 25 NEW LONDON, CONN.		

FIELD-GROWN LINING-OUT STOCK

All stock grown in open field beds.



EUONYMUS FORTUNEI ERECTA
(Big-leaved Winter Creeper)



LEUCOTHOE CATESBAEI
Field Transplant



AZALEA MOLLIS
Field Transplant

	Each	Each
	per	per
	100	1000
Azalea, Ghent (pontica),		
2 to 5 ins., 2-yr., T.....	\$0.20	
5 to 8 ins., 3-yr., T.....	.25	\$0.20
8 to 10 ins., 4-yr., T.....	.45	.40
Azalea kaempferi,		
2-yr., T., field bed.....	.28	.24
Azalea mollis (Chinese Azalea),		
6 to 8 ins., 2-yr., T.....	.35	.20
8 to 10 ins., 3-yr., T.....	.35	.30
10 to 12 ins., 4-yr., T.....	.65	
Azalea schlippenbachii		
(Royal Azalea),		
2-yr., field bed, T.....	.28	.25
3-yr., field bed, T.....	.35	.32
Chamaecyparis filifera,		
8 to 12 ins., 2-yr., T.....	.35	
Chamaecyparis lawsoniana pendula,		
10 to 15 ins., 3-yr., T.....	.45	
Chamaecyparis plumosa aurea,		
6 to 8 ins., 2-yr., T.....	.35	.30
8 to 10 ins., 3-yr., T.....	.40	.35
Chamaecyparis squarrosa		
(Moss Cypress),		
5 to 8 ins., 1-yr., T.....	.30	.28
8 to 12 ins., 3-yr., T.....	.35	
Chamaecyparis thyoides		
6 to 8 ins., 1-yr., T.....	.25	.23
10 to 15 ins., 3-yr., T.....	.45	
Cotoneaster horizontalis		
6 to 8 ins., 2-yr., T.....	.38	
8 to 12 ins., 3-yr., T.....	.45	

Euonymus fortunei carrieri,		
8 to 10 ins., 2-yr., T....	.30	.25
10 to 15 ins., 3-yr., T....	.35	.30
Euonymus fortunei coloratus,		
6 to 10 ins., 2-yr., T....	.25	.20
10 to 15 ins., 3-yr., T....	.35	.30
Euonymus fortunei erectus,		
(Big-leaved Winter Creeper)		
8 to 10 ins., 2-yr., T....	.22	.18
10 to 12 ins., 2-yr., T....	.25	.20
12 to 15 ins., 3-yr., T....	.35	.30
15 to 18 ins., 4-yr., T....	.45	
Euonymus radicans coloratus,		
(Small-leaved Winter Creeper),		
8 to 10 ins., 2-yr., T....	.22	.18
10 to 12 ins., 2-yr., T....	.25	.20
12 to 15 ins., 3-yr., T....	.35	.30
Euonymus radicans vegetus,		
6 to 8 ins., 1-yr., T....	.18	.16
8 to 10 ins., 2-yr., T....	.25	.20
10 to 12 ins., 2-yr., T....	.35	.30

Juniperus canadensis aurea,		
4 to 6 ins., 1-yr., T.....	.25	
6 to 8 ins., 2-yr., T.....	.35	

	Each	Each
	per	per
	100	1000
Juniperus communis hibernica		
(Irish Juniper),		
12 to 15 ins., 3-yr., T.....	\$0.45	\$0.42
15 to 18 ins., 4-yr., T.....	.55	.50
Juniperus communis hibernica		
fastigiata		
(Compact Irish),		
8 to 10 ins., 2-yr., T.....	.35	.30
10 to 12 ins., 2-yr., T.....	.38	.33
12 to 15 ins., 3-yr., T.....	.45	.40
Juniperus horizontalis glauca		
6 to 8 ins., 2-yr., T.....	.35	.32
8 to 10 ins., 2-yr., T.....	.40	

Juniperus pfitzeriana compacta
(Nelson's variety). Gray-blue,
grows compact. Shapes up
quickly.

6 to 8 ins., 1-yr., T....	.35	
8 to 10 ins., 1-yr., T....	.45	
10 to 15 ins., 3-yr., T....	.65	

Juniperus stricta,		
4 to 5 ins., 1-yr., T.....	.35	.32
Koelerutera paniculata		
(Golden-Rain Tree),		
8 to 12 ins., 3-yr., T.....	.18	.16
Larix europaea (European Larch),		
15 to 18 ins., 3-yr., T.....	.18	.12
18 to 24 ins., 4-yr., T.....	.25	.18
2 to 3 ft., 4-yr., T.....	.35	.28

Leucothoe catesbaei,		
6 to 8 ins., 2-yr., T.....	.25	.20
8 to 10 ins., 2-yr., T.....	.35	.30
10 to 12 ins., 3-yr., T.....	.45	

Liquidambar styraciflua		
(Sweet Gum),		
8 to 12 ins., 2-yr., T.....	.15	.12
Pieris floribunda,		
3 to 6 ins., 2-yr., T.....	.25	.20
6 to 10 ins., 2-yr., T.....	.30	.25

Pieris japonica,		
6 to 8 ins., 2-yr., T.....	.28	.25
8 to 10 ins., 2-yr., T.....	.35	.30
8 to 12 ins., 3-yr., T.....	.65	

Pinus mugo,		
4 to 6 ins., 3-yr., T.....	.18	.16
6 to 8 ins., 4-yr., T.....	.22	.20

Rhododendron catawbiense,		
purple-pink,		
2-yr., field bed, T.....	.22	.20
Rhododendron maximum,		
light pink,		
2-yr., field bed, T.....	.22	.20

Rhododendron Hybrids,		
seed out of		
red-blooming plants,		
2-yr., field bed, T.....	.35	.32
3 to 5 ins., 3-yr., T.....	.45	

(Sturdy center stems to multi-branched heads).

Rhus cotinus (Smoke Tree),		
10 to 12 ins., 3-yr., T.....	\$0.18	\$0.12
12 to 18 ins., 3-yr., T.....	.25	.20

Taxus cuspidata,		
8 to 10 ins., 2-yr., T.....	.35	
10 to 15 ins., 3-yr., T.....	.45	

Thuja occidentalis douglasii aurea,		
6 to 8 ins., 2-yr., T.....	.35	.32
6 to 10 ins., 3-yr., T.....	.45	.42

Thuja occidentalis elegantissima		
lutea, golden tip over dark		
green foliage, nonshedding,		
Very pyramidal,		
6 to 8 ins., 2-yr., T.....	.35	.30

8 to 10 ins., 3-yr., T.....	.40	.35
10 to 12 ins., 3-yr., T.....	.45	.40
12 to 15 ins., 4-yr., T.....	.55	.50
15 to 18 ins., 4-yr., T.....	.65	.60

Thuja occidentalis pyramidalis,		
12 to 15 ins., 3-yr., T.....	.55	

Viburnum opulus, red berries fall,		
10 to 18 ins., 3-yr., T.....	.18	.12
18 to 24 ins., 3-yr., T.....	.25	.20

Viburnum opulus nana (Dwarf		
Bush Cranberry),		
2-yr., field, T.....	.30	.25
3-yr., field, T.....	.40	

HEX VARIETIES

100,000 Transplants

Hex crenata convexa (bullata),		
6 to 8 ins., 1-yr., T.....	.25	.22
8 to 10 ins., 2-yr., T.....	.38	.35
10 to 15 ins., 2-yr., T.....	.55	.45

Hex crenata holleri		
(Heller's Dwarf Holly),		
1-yr., field bed, T.....	.25	
2-yr., field bed, T., bushy....	.40	

Hex rotundifolia		
(Round-leaved Holly),		
6 to 8 ins., 1-yr., T.....	.25	.22
8 to 10 ins., 2-yr., T.....	.38	.35

10 to 12 ins., 3-yr., T.....	.45	.40
12 to 15 ins., 3-yr., T.....	.65	.55

Lining-out Stock

25 at the 100 Rate.

300 at the 1000 Rate.

TERMS: Cash with order, otherwise 1/2 deposit with order and balance C.O.D. Packing at cost. Payment in advance earns free packing. All shipments by railway express.

Write for our complete price list.

PALLACK BROS. NURSERIES INC.

Phone Zelienople 789 (or 644 evenings)

(We are not open Sundays)

(31 mi. north of Pittsburgh, Pa., on Rt. 19) R. D. I. HARMONY, PA.

BUNTINGS' STRAWBERRY PLANTS

For immediate or later delivery as desired.

Heat-treated planting stock, set in chemically treated soil; free from disease and insects.

Leading varieties, as designated by (*) below, will be supplied from indexed virus-free mother plants that were grown in our large screen house. The production of planting stock inside our screen house assures Buntings' customers of receiving plants that are substantially free of virus. Give your customers the best by making Buntings' your headquarters for your strawberry requirements!

STANDARD JUNE-BEARING

	25	50	100	250	500	1000
*Albritton	\$0.60	\$1.10	\$1.75	\$3.50	\$6.50	\$12.00
Big Joe	.55	1.00	1.60	3.25	6.00	11.00
*Catskill	.60	1.10	1.75	3.50	6.50	12.00
*Dixieland	.60	1.10	1.75	3.50	6.50	12.00
Dorsett	.55	1.00	1.60	3.25	6.00	11.00
*Fairfax	.55	1.00	1.60	3.25	6.00	11.00
Fairland	.55	1.00	1.60	3.25	6.00	11.00
Fairpeake	.60	1.10	1.75	3.50	6.50	12.00
*Klondike	.55	1.00	1.60	3.25	6.00	11.00
*Kionmore	.55	1.00	1.60	3.25	6.00	11.00
*Midland	.60	1.10	1.75	3.50	6.50	12.00
*Premier	.60	1.10	1.75	3.50	6.50	12.00
Red Crop	.55	1.00	1.60	3.25	6.00	11.00
*Red Star	.60	1.10	1.75	3.50	6.50	12.00
*Robinson	.55	1.00	1.60	3.25	6.00	11.00
*Stelemaster	.60	1.10	1.75	3.50	6.50	12.00
*Vermillion	.60	1.10	1.75	3.50	6.50	12.00
Wisconsin 214	.60	1.10	1.75	3.50	6.50	12.00
Wisconsin 261	.60	1.10	1.75	3.50	6.50	12.00

EVERBEARING VARIETIES

	.80	1.50	2.50	5.50	11.50	20.00
Gem	.80	1.50	2.50	5.50	11.50	20.00
Mastodon	.85	1.55	2.75	6.25	11.75	22.00
Streamliner	.85	1.55	2.75	6.25	11.75	22.00
Superfection	.80	1.50	2.50	5.50	11.50	20.00
Twentieth Century	1.50	2.50	3.75	8.75	16.00	30.00

Write for special prices on large numbers; free packing for cash with order.

BUNTINGS' NURSERIES, INC.

Box 3,

SELBYVILLE, DEL.

LINING-OUT STOCK

Per 100 Per 1000

ILEX CRENATA		
seedling-grown, 4-yr., XX,		
field	\$50.00	\$450.00
seedling-grown, 3-yr., X, beds	12.00	90.00
ILEX CRENATA MICROPHYLLA		
seedling-grown, 3-yr., X, beds	12.00	90.00
ILEX CRENATA CONVEXA		
2-yr., X, beds	30.00	250.00

Minimum mail order \$20.00.

BROOKFIELD GARDENS

U. S. Rt. 46 DELAWARE, N. J.

QUALITY STOCK GROWN BY US

Roses, Azaleas, Evergreens, California Privet, Green Barberry, Red Barberry (fine strain).

Seedlings and transplants.

DANEGGER'S HI-WAY NURSERY, INC.

P. O. Box 336 MILFORD, DEL.

Mention The American Nurseryman when you write.

BOULEVARD NURSERIES

Newport, R. I.

- Quality Nursery Stock
- Lining-Out Stock
- Root-Thru Plant Pots

HEMLOCK

Rhododendron—Kalmia

Azalea

CURTIS NURSERIES

CALLICOON, N. Y.

ILEX BULLATA

A very choice, very hardy, low-growing evergreen, with shiny, dark green, convex, boxwood-like leaves. Grows fast into money, up to 2 feet, and there slows down. Ultimate size 3 feet high and 1 foot wide. Easier to grow than Yews and can be used in sun or shade. Sells on sight. Grows very dense and contrasts well with other evergreens. Makes the perfect low hedge. 6 to 8 ins., T...15c. 8 to 10 ins., T...20c. Send for list of other unusual plants.

ALANWOLD NURSERY

NESHAMINY, Bucks Co., PA.

20 MILLION TREES A YEAR!

FREE
Catalog

Evergreen Seedlings—Transplants.
Fruit and Shade Trees, Shrubs and
Rhododendrons

Free Christmas Tree Growers' Guide

MUSSER FORESTS Box 16-D Indiana, Pa.

Plants for the Ranch Home

Spring was ushered into southern Wisconsin in the most appropriate manner, March 20, by Roy M. Nordine, propagator at the Morton Arboretum, Lisle, Ill., who talked to nurserymen and horticulturists at Madison, Wis., on the topic, "The Best in Dwarf Woody Plants for the Ranch-Style Home."

Slides of colorful blooms and foliage made of plants that are growing in the Morton Arboretum were shown to illustrate the dominant features of shrubs that have been recommended by Mr. Nordine for wider use in zone 4, in which Madison, as well as the Morton Arboretum, is located.

"The demand for dwarf woody shrubs for the single-story home," stated Mr. Nordine, "imposes an obligation on nurserymen and horticulturists to acquaint the public with the fine qualities of many plants that are now found only in arboreta and in a few of the more specialized nurseries."

Low Plants

From the list of 123 plants recommended for zone 4, only a few were selected for more detailed discussion:

In the 1-foot, or ground cover group, Mr. Nordine recommended Baltic ivy and Canby pachistima as being two plants worthy of greater popularity. Canby pachistima does well in either sun or shade, is evergreen and has some characteristics similar to boxwood.

The following plants were chosen from the 1 to 2-foot group for comment: Crimson Pigmy barberry; purple-leaved wintercreeper; Euonymus obovata, or running euonymus; Ligustrum Mosmat Dwarf; Cornus stolonifera nana Kelsey Dwarf, and Rosa rugosa Max Graf.

In the 2 to 3-foot group special mention was made of Andrachne colchica; Berberis thunbergi argenteo-marginata Berberis thunbergi aurea; Ceanothus americanus, or New Jersey tea; Cotoneaster adpressa praecox and Cotoneaster apiculata; Elsholtzia stauntoni; Forsythia Arnold Dwarf, and Ribes alpinum pumilum.

In the foregoing group the interesting fruiting and branching habits of the early-creeping (Cotoneaster adpressa praecox) and the cranberry (Cotoneaster apiculata) cotoneasters are desirable features found

DO YOU NEED SOME OF THESE?

SOMETHING OLD.....AND.....SOMETHING NEW

Standard varieties

—known
—tried
—tested

FOR—that landscape job
—immediate sale

FOR—lining out
—future sales

New varieties

—lovely
—exotic
—splendid

Azalea mollis (Chinese Azalea)	Per 100	Per 1000
Magnificent deciduous azalea. Mostly copper shades		
*3 to 6 ins., twice transplanted	\$18.00	\$144.00
*6 to 9 ins., twice transplanted	24.00	192.00

Calluna vulgaris aurea (Golden Heather)	Per 100	Per 1000
Appeals to all who see it. Hardy, new. 12 to 15 ins., twice transplanted, B&B	\$ 81.00	.....
Chamaecyparis lawsoniana minima glauca (Little Blue Cypress). A beautiful true dwarf, dark and dense, bluish-green foliage.		
*4 to 6 ins., twice transplanted	25.00	\$200.00
Chamaecyparis obtusa nana (Dwarf Hinoki Cypress) A real genuine dwarf having exceedingly dense, heavy dark foliage.		
*3 to 4 ins., twice transplanted	18.00	144.00
Cytisus purgans (Provence Broom) Dwarf, hardy, compact. A profusion of yellow flowers.		
*6 to 12 ins., once transplanted	15.00	120.00
Daphne mezereum alba (White February Daphne) A huge quantity of showy white flowers.		
*1 to 3 ins., not transplanted	9.00	72.00
Daphne mezereum rubra (Red February Daphne) Delightfully fragrant, lilac-purple flowers.		
*1 to 3 ins., not transplanted	9.00	72.00
Erica carnea (King George) Flowers bright red, completely cover the plant.		
*1 to 3 ins., once transplanted	9.00	72.00
Erica carnea sherwoodii (Sherwood Creeping Heath) Low-growing. Flowers bright carmine-red.		
*1 to 3 ins., once transplanted	9.00	72.00
Erica carnea (Springwood White) Fine, low-growing heath. Flowers pure white.		
*6 to 9 ins., twice transplanted	20.00	160.00
Erica carnea An early red. Blooms in January, bright red flowers.		
*3 to 6 ins., once transplanted	12.00	96.00
Gaultheria procumbens (Wintergreen) The fine foliage, the small, delicate, pink, bell-shaped flowers, the brilliant red berries and its hardiness combine to make it one without peer in its class.		
*2-yr., once transplanted	10.00	80.00

DID YOU KNOW?

That some plants have almost a mile of root hairs inside one cubic inch of soil.

Juniperus horizontalis glauca (Blue Creeping Juniper) Foliage is charming steel-blue.		
12 to 15 ins., twice transplanted, B&B	102.00	.....
Juniperus virginiana tripartita (Fountain Juniper) Semi-upright, but spreading, dense foliage.		
18 to 24 ins., twice transplanted, B&B	154.00	.....
Mahonia aquifolium (Oregon Grape) An ornate little evergreen shrub.		
*3 to 6 ins., once transplanted	11.00	88.00



Mahonia nervosa (Long-leaved Hollygrape)	Per 100	Per 1000
Plants grow 12 to 18 ins. tall, beautifully fern-like in form.		
*3 to 6 ins., once transplanted	\$ 11.00	\$ 88.00
Picea engelmanni (Engelmann Spruce) Dense, slender. Bluish-green foliage.		
*6 to 9 ins., not transplanted	7.00	56.00
Picea excelsa (Norway Spruce) One of the best known and one of the hardest of conifers.		
*12 to 15 ins., once transplanted	15.00	120.00
Picea excelsa nidiformis (Nest Spruce) Wonderful, dwarf, dark green, flattened globe.		
*3 to 6 ins., once transplanted	18.00	144.00
Picea excelsa sherwoodii (Sherwood's Multnomah Spruce) Beautiful, dwarf, irregular globe. New.		
*3 to 6 ins., once transplanted	18.00	144.00

DID YOU KNOW?

That the cones of spruce trees hang down and those of fir trees stand up.

Picea glauca densata (Black Hills Spruce) A handsome hardy tree.		
*3 to 6 ins., not transplanted	5.00	40.00
Pinus jeffreyi (Jeffrey Pine) Picturesque, spire-shaped conifer native of Oregon.		
*6 to 9 ins., once transplanted	14.00	112.00
Pseudotsuga douglasii (Douglas Fir) A truly stately tree. Silver strain.		
*12 to 15 ins., once transplanted	18.00	144.00
Taxus baccata (English Yew) Possibly the greatest of all hedge evergreens.		
12 to 15 ins., twice transplanted, B.R., hedging grade	65.00	.....
Taxus cuspidata (Japanese Yew) One of the most satisfactory of dwarf evergreens. Hardy.		
*6 to 9 ins., twice transplanted	23.00	184.00
Thuja occidentalis (American Arborvitae) Native New Brunswick and Manitoba to North Carolina.		
*12 to 15 ins., twice transp., field-grown, ..	25.00	200.00
2 to 3 ft., twice transplanted, B.R., hedging grade	73.00	.....
Thuja occidentalis pyramidalis (American Pyramidal Arborvitae) A most desirable arborvitae of narrow columnar growth, dense.		
*12 to 18 ins., twice transplanted, field-grown	30.00	240.00
4 to 5 ft., twice transplanted, B&B	183.00

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5 to 6 ft., branched	2.75	2.50
6 to 7 ft., whips	2.75	2.50
6 to 7 ft., branched	3.35	3.00

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The Monroe Nursery
MONROE, MICHIGAN

useful in landscaping the rambling ranch home.

Plants in the 3 to 4-foot group discussed were *Amelanchier stolonifera*, or running shadblow; *Berberis mentorensis*; *Buxus microphylla koreana*; *Chaenomeles lagenaria*, or Nishikichidon; *Chaenomeles superba* Crimson and Gold; *Hydrangea quercifolia*, or oak-leaved hydrangea; *Lonicera Clavey's Dwarf*; *Mahonia aquifolium*; *Paeonia suffruticosa* varieties, and *Ribes fasciculatum chinense*, or Chinese winterberry currant.

Of Special Interest

Of particular interest in the foregoing group are the tree peony, with its showy blooms, and the Chinese winterberry currant, with its colorful fruiting in the late fall when all other shrubs begin to appear somewhat drab. For excellent fall leaf color the oak-leaved hydrangea is highly recommended.

The largest shrubs suggested for the ranch home were in the 4 to 5-foot size. Plants discussed in this group included *Abeliophyllum distichum*, or Korean abelia-leaf; *Aesculus parviflora*, or bottlebrush buckeye; *Berberis koreana*; *Cotoneaster tenuipes*, or slender cotoneaster; *Deutzia lemoinei* compacta;



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18 to 24 ins., sheared	2.40	
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18 to 24 ins.	1.60	
Philadelphus virginialis		
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1-yr., T.	10.00
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8 to 10 ins.	30.00

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Our Hinos are very dark red.

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10 ins.	1.00
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8 ins.75
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Biota orientalis, 15 to 18 ins., TT.	125.00
Juniper, Andorra, 9 to 12 ins.	200.00

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Raspberry Plants, 1 and 2-yr.
Black — Purple — Red
Blackberries — Thornless Boysenberry
Red Currants — Grapevines
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18 to 24 ins.

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	Each	Each
	100	1000
	Rate	Rate
Chipman's Red, No. 1 Div.	\$0.27 1/2	\$0.25
Valentine All Red, No. 1 Div.	37 1/2	.35
Victoria Red, No. 1 Div.		
(Excellent commercial red strain)	.18	.15
Linnaeus, whole roots,		
2 ins. to 1 in.	.05 1/2	.04 1/2
Linnaeus, whole roots,		
2 ins. and up	.12	.10

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200 Apricots—Hungarian and hardy northern, large, 2-yr., 1-in. cal., \$75.00 per 100.

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	Each	100 Rate
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Caryopteris incana (Blue Mist), No. 1.	.30	
Cornus mascula, 2 to 3 ft.	.50	
Cornus mascula, 3 to 4 ft.	.65	
Cotoneaster divaricata, 2 to 3 ft.	.75	
Deutzia lem. compacta, 18 to 24 ins.	.45	
Euonymus carrierei and E. Newport,		
2-yr., 18 to 24 ins., B&B	1.25	
Forsythia, Arnold's Dwarf, 15 to 18 ins.	.40	
Forsythia Lynwood Gold, 3 to 4 ft.	.50	
Forsythia spectabilis, 3 to 4 ft.	.45	
Hamamelis vernalis, 2 to 3 ft.	.50	
Hydrangea paniculata, 18 to 24 ins.	.40	
Hypericum kalmianum (Pot O' Gold),		
15 to 18 ins.	.40	
18 to 24 ins.	.45	
Kolkwitzia amabilis, 36 to 42 ins.	.50	
Lonicera sabell, 3 to 4 ft.	.50	
Ligustrum, Regel's, 18 to 24 ins.	.35	
Ligustrum Vicary Golden, true type,		
2-yr., 10 to 15 ins., field	.35	
Malus Almey, best red	2.00	
Mountain Ash, European, 8 to 10 ft.	2.50	
Philadelphus grandiflorus, 3 to 4 ft.	.50	
Philadelphus virginialis, 2 to 3 ft.	.45	
Prunus tomentosa, 2 to 3 ft.	.50	
Prunus tomentosa, 3 to 4 ft.	.60	
Rhus cotinus, 18 to 24 ins.	.50	
Rhus cotinus, 3 to 4 ft.	.75	
Spiraea prunifolia, 36 to 42 ins.	.45	
Spiraea vanhouttei, 3 to 4 ft.	.40	
Snowberry, white, 3 to 4 ft.	.45	
Tamarix Summer Glow, 3 to 4 ft.	.50	
Viburnum lantana, 2 to 3 ft.	.40	
Viburnum lentago, 2 to 3 ft.	.40	
Willow, French Caprea, 3 to 4 ft.	.40	

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Euonymus alata Korean form; Rhus aromatica; Syringa vulgaris Triste Barbaro, and Syringa vulgaris Grand-Duc Constantin.

Because only a few of the 123 plants could be described during the evening, Mr. Nordine supplied the audience with a printed list of the recommended shrubs arranged in groups according to size.

"Every nurseryman should set aside a test plot," advised Mr. Nordine, "where he can observe and study unusual plants and become familiar with their growth and culture so that he in turn can help to educate and encourage the public to use them."

"Morton Arboretum will assist them," continued Mr. Nordine, "by supplying plant material and instruction on propagating techniques on some of the plants in the recommended list so that in time the nurseryman and public will become familiar with them."

Morton Arboretum had its beginning in 1921, when Joy Morton, then president of the Morton Salt Co., endowed the institution for the purpose of collecting and propagating woody plants from all over the world which could be expected to thrive in this climate. The collection now contains over 4,000 species and varie-

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3 1/2 to 4 ft.	\$5.50
4 to 4 1/2 ft.	6.50
4 1/2 to 5 ft.	8.50
3 1/2 to 4 ft., hedging	4.50

COTONEASTER DIVARICATA

24 to 30 ins.	1.75
30 to 36 ins.	2.50

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Evergreens, Fruit Trees, Shade
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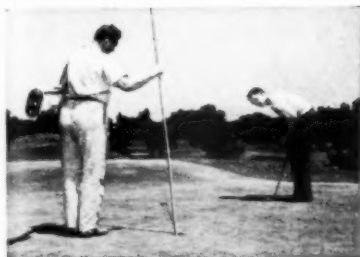
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Don't miss the opportunity to get better results while you save time, money and labor with new BORDEN'S 38. Write the address below for descriptive literature and the name of your nearest distributor.

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	Single-stem Specimens	Choice Multiple Clumps
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4 to 5 ft., B&B	2.50	3.50
5 to 6 ft., B&B	3.50	5.50
6 to 7 ft., 1 1/4 to 1 1/2-in. cal., B&B	5.50	6.50
7 to 8 ft., 1 1/2 to 2-in. cal., B&B	6.00	8.50
8 to 9 ft., 1 3/4 to 2-in. cal., B&B	8.50	10.50
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8 to 10 ft., 2 to 2 1/2-in. cal. (approx. 5 to 6-ft. spread), B&B	\$12.50	
8 to 10 ft., 2 to 2 1/2-in. cal. (approx. 6 to 8-ft. spread)	15.00	
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10 to 12 ft., 2 1/2 to 3-in. cal. (approx. 5 to 6-ft. spread)	18.50	
10 to 12 ft., 2 1/2 to 3-in. cal. (approx. 6 to 8-ft. spread)	22.50	
12 to 14 ft., 14 to 16 ft., with 6, 8, 10, 12, 14-ft. spread available with 3 to 5 in. cal., in choice clumps and single-stem specimens.		

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\$5.00 per 100**\$45.00 per 1000**

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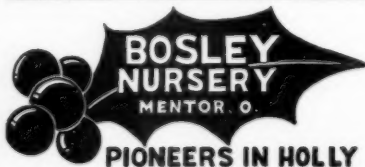
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ties planted in functional, geographical and generic, as well as in general landscape, groupings.

Guests

Among the guests of the Madison Landscape Nurserymen's Association, sponsors of the meeting, were Prof. G. William Longenecker, of the landscape department of the University of Wisconsin; Prof. George A. Ziegler, horticultural specialist of the extension division of the University of Wisconsin; Wade Kumlien, Kumlien Nurseries, Janesville; Robert Herman, McKay Nursery, Waterloo; C. H. Sanderson, Burma Road Gardens, McFarland; Warren Schmitz and Robert Carter, landscape architects with the state highway department of Wisconsin; Mr. and Mrs. Richard Meland and Mrs. C. J. Koch, Arrowwood Nursery; Peter Ganshart, Ganshart Landscape Service; Homer Fieldhouse, Flowerdale Nursery; Axel H. Lundstrom, Lundstrom Nursery; Mr. and Mrs. Harvey Schmidt, Schmidt Nursery & Greenhouse; Clifford and Harold Mathison, Mathison Landscape Service; Mr. and Mrs. Alton Wilke, Wilke's Nursery; Robert Graves, landscape architect; George Maclean and George Maclean, Jr., Maclean's Greenhouse, and Stanley Dybevik and Clyde Bethke, horticulture students at the University of Wisconsin, all of Madison.

Axel H. Lundstrom

MILLER LANDSCAPE AWARD

[Concluded from page 12]

been reduced to an occasional rough cutting of the bluegrass patch and watering in extremely dry periods.

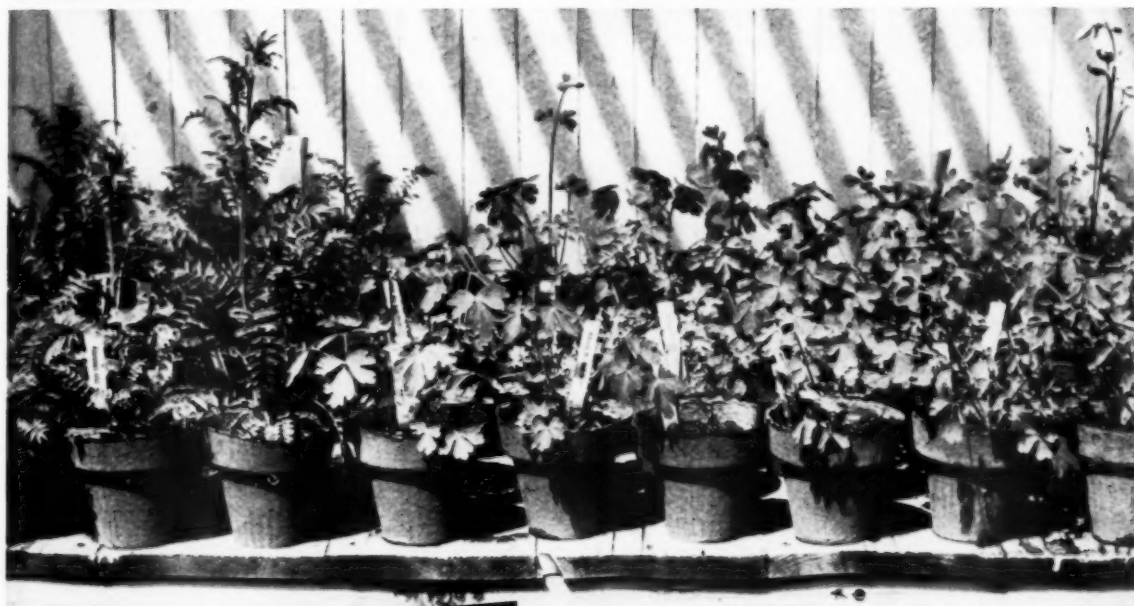
Latest landscaping project, completed in 1955, was the decoration of the exterior of the Administration building annex, west and north of the main building shown here. Weathered lannon stone again was used as a grade change, turf was laid and flowers and evergreen shrubs were planted.

Klokner Bros., Milwaukee, designed and carried out the landscape work on the Miller property and provide the permanent maintenance staff of six men. Among the tasks is the annual application of more than five tons of plant food to the turf areas and flower beds.

G. B. KJELGAARD is starting a retail nursery, Kjelgaard Nursery & Supplies, R. D. No. 3, Jefferson, N. Y., this spring. He plans to grow fruit trees and berries chiefly, on 12 acres.

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SIZE	PRICE PER M	QUANTITY PER CASE	WEIGHT PER CASE
2 1/4"	\$10.75	1000	10 LBS.
2 1/2"	12.50	1000	19 LBS.
3"	17.50	1000	21 LBS.
4"	24.00	500	20 LBS.

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THIS BUSINESS OF OURS

Reflections on the Problems of Nurserymen

By E. Sam Hemming

SHADE AND PLANTS

The nurseryman uses shade extensively in the growing of plants, yet the relationship of shade to plants is more complex than it seems on the surface.

In normal growing procedure, shade protection for plants does two things. It reduces the heat of the sun, and that reduces the moisture loss from the leaves by transpiration. It also keeps the local humidity higher in the immediate area of the shaded plants. This is extremely helpful in several stages in the production of plants. It is useful in reducing moisture loss from leaves when cuttings are being rooted, until the cuttings form roots so that they can absorb moisture themselves. It is similarly useful in the transplanting of young seedlings or other young plants until they too become established.

Shade is also useful in the treatment and care of certain diseased or newly transplanted mature plants, particularly in the case of plants like boxwood and similar broad-leaved evergreens.

Plants can, within limits, do for themselves what artificial shade does for them. The leaf of a plant in full sun tends to develop a thicker epidermis and harder tissue. Leaves grown on a plant in shade will develop more stomata (the minute openings through which vapor passes to and from the leaf), some developing even on the upper surface, while leaves in full sun will tend to have a smaller number.

When a customer is told to shade a plant, his tendency is to overdo it. Often he will build a solid box around a plant, which will make the leaf so thin and tender that when the plant is uncovered the foliage will be killed completely. It is questionable if any of the plants grown by nurserymen should ever be given more than 50 per cent shade. In giving advice to customers it is best to instruct them to remove shade from a covered plant at a time when the plant is not making new growth. A good time is just before the plant starts new growth.

Shade and lack of light are not the same thing. The relationship may be parallel, but the two are sepa-

rate. Light is a vital necessity for plants as part of the process of photosynthesis, but plants can get enough for this purpose in a short part of a day; so in that sense shading does not affect plants. In fact, the green color of a plant is usually darker when the plant is growing in the shade.

Light alone affects plants in two ways. Long light, but of low intensity, favors vegetative growth, which is why plants of certain types grow best in the far north. Light of high intensity but of shorter daytime length favors flower, fruit and seed production and reduces vegetative growth. Thus a plant grown in a slat shade will make good leaf growth, but its flowering potential will be reduced.

Shade not only affects flowering,

but in general affects the coloring in flower and fruit and even in the leaf. The most brilliant colors are found when flowers receive the most intense light (which is not the same as hot sun), and the same is true of color of fruit. Shade greatly reduces the tendency of leaves to turn color, particularly to red, both during the growing season and for fall coloring. The nandina is an excellent example of this, the leaves staying green in the shade, although the fruit changes color, and turning bright red in full sun.

The need of shade is not even consistent with the whole plant. For instance, a shade tree will grow its leaves in a mosaic pattern so that each leaf will receive sun and light, yet it is a necessity that the trunk be shaded to reduce the danger from sunscald. A beech or a red maple offers an example of this. Other trees like the dogwood, which can be acclimated to grow in the full sun in the nursery rows, are never really established until the leaves are shaded by other trees, the trunk shaded by its leaves and the surface over the roots shaded too. Another

NORTHERN-GROWN Quality Stock

3-yr. Seedlings

Colorado Blue Spruce	Per 100	Per 1000
4 to 6 ins.	\$3.50	\$ 30.00
Norway Spruce		
4 to 8 ins.	3.50	30.00
American Arborvitae		
4 to 8 ins.	3.50	30.00
White Pine		
6 to 8 ins.	3.50	30.00

2-yr. Seedlings

Colorado Blue Spruce		
2 to 4 ins.	3.00	25.00
Black Hills Spruce		
2 to 4 ins.	3.00	25.00
Mugho Pine (Dwarf Tyrolean)		
2 to 3 ins.	3.00	25.00
Scotch Pine (Riga)		
2 to 4 ins.	2.50	20.00
Ponderosa Pine		
2 to 5 ins.	2.50	20.00
Austrian Pine		
2 to 4 ins.	3.00	25.00
Norway Spruce		
2 to 5 ins.	3.00	25.00
American Arborvitae		
2 to 4 ins.	2.50	20.00
Douglas Fir, Snowy Mt.		
2 to 5 ins.	3.50	30.00

Transplants

Colorado Blue Spruce	3-2	
4 to 6 ins.	12.00	100.00
Norway Spruce		
6 to 8 ins.	10.00	90.00
White Spruce		
10 to 12 ins.	12.00	100.00
8 to 10 ins.	10.00	90.00
Balsam Fir		
6 to 8 ins.	12.00	100.00
American Arborvitae		
12 to 15 ins.	18.00	150.00
10 to 12 ins.	15.00	120.00
6 to 10 ins.	10.00	80.00
Mugho Pine (Dwarf Tyrolean),		
sheared, 4 to 5 ins.	18.00	150.00

Write for price on 10,000 lots Colorado Blue Spruce and American Arborvitae, 2-yr. and 3-yr. seedlings.

Strict Grade. Well Packed.

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Lining-out and B&B Stock

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	Per 10	Per 100
Hyperion	\$2.50	\$20.00
J. A. Crawford	2.50	20.00
Mrs. W. H. Wyman	2.50	20.00
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Write for quantity quotations.

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CORKSCREW TREE

(Salix Matsudana Tortuosa)

Contorted Hankow Willow or Corkscrew Tree. Very odd appearing horticultural curiosity. Branches grow upright with a corkscrew twist. Compact growing large shrub or small tree. Ultimate height 12 to 15 ft. Small trees approximately 4 to 5 ft. \$2.50 each.

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Sequestrene^{*}

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For Ornamentals, Shrubs, Trees, Lawns, Fruit, Vegetables



When you walk between your rows of ornamentals, shrubs, and trees, is there any evidence of yellowing leaves or poor growth caused by iron deficiency (chlorosis)?

Such iron deficiency may not be caused by lack of iron in the soil, but because iron is unavailable to the plant. Iron may be "locked up" especially in high clay soils.

You can correct iron deficiency effectively with SEQUESTRENE iron chelates. SEQUESTRENE chelates provide an economical water soluble form of available iron which helps restore plants to full vigor, and create dark-green lush growth. This iron deficiency preventive and corrective can help you have a better percentage of marketable ornamentals, shrubs, and trees all season round. And, one gram of chelated iron around a tree provides as much usable iron as a pound of iron sulfate.

SEQUESTRENE iron chelates are compatible with commonly used pesticides and fertilizers. They may be used effectively as foliage sprays or as soil applications—alone or combined with fertilizers.

SEQUESTRENE iron chelates are available as: SEQUESTRENE NaFe IRON CHELATE. *For use on acid soils. 12% iron as metallic.* SEQUESTRENE 330 Fe IRON CHELATE. *For use on alkaline or slightly acid soils. 10.5% iron as metallic.* Available in bulk, 5-lb. bags, 1-lb. canisters, and 4-oz. polyethylene bags.

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CHLOROBENZILATE offers economical mite control with maximum safety. CHLOROBENZILATE controls Two-Spotted Mites, Spruce Mites, European Red Mites, Southern Red Mites, and Brown Clover Mites, including resistant strains.



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Broad-leaved Evergreen of
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- Landscape Shrub
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- Ideal for Canning
- "Filler" Shrub
- Cash-and-carry Sales
- Window Box Item

Small-leaved; broad, upright, dense growth; dwarf habit. Selected strain of the best quality.

Wide range of sizes

	100	1000
	rate	rate
2-in. pot	17c	15c
9 to 12 ins., 3-yr., TT.....	40c	35c
12 to 15 ins., 3-yr., TT.....	45c	40c
15 to 18 ins., 3-yr., TT.....	70c	65c
18 to 24 ins., 4-yr., TT.....	90c	85c

Bare root only

Ready for immediate shipment.

Minimum quantity: 100 pots or 50 B.R. shrubs, please.

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HALL'S JAPANESE HONEYSUCKLE

Evergreen foliage, fragrant, cream-colored flowers. Unexcelled for trellises, arbors, fences and screens and for ground covers.

Do not confuse these plants with poorly rooted, collected runners. These are nursery-grown, propagated from rooted cuttings, potted and transplanted to the field.

No. 1 plants only.

16c each in lots of 500 or more.
\$2.50 per 10; \$20.00 per 100; \$160.00 per 1000.

(30 at 100 rate; 300 at 1000 rate.)

THE WILLIS NURSERY CO.

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Specializing in B&B Evergreens

BROADLEAFS and CONIFERS

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P. O. Box H GREENSBORO, N. C.

relationship that is difficult for a customer to understand is that a shade-loving plant will not necessarily thrive growing under the branches of a big old tree. Here the shade benefit is counteracted by the loss of moisture to the roots of the tree, particularly when planted on an open lawn. When the same relationship occurs in a wood, the local humidity is constantly higher than it is on the open lawn.

Shade for Broad-Leaved Evergreens

The use of shade is particularly valuable in the growing of broad-leaved evergreens, and it is not only helpful in summer when the sun is hot, but even more helpful when the ground is frozen in winter time. Broad-leaved evergreens are never really dormant, and if they cannot take up moisture when the ground is frozen, shading the leaves reduces moisture loss. I believe that a 50 per cent shade will enable this type of plant to withstand temperatures 10 degrees colder than it could stand if fully exposed.

The use of shade in a nursery is a useful production tool.

"PLANT IOWA" PROGRAM

The "Plant Iowa" program came into existence three years ago as an outgrowth of the "Plant America" program, sponsored by the American Association of Nurserymen. The late Governor Beardsley appointed some 15 organizations which served as a nucleus for the newly formed "Plant Iowa" committee, as it is known today. The committee now has 30 co-operating organizations. Of about 35 states that now have planting programs, Iowa is considered to have one of the best.

The Iowa program is headed by an executive committee composed of Robert Bauge, Shenandoah, chairman; Mrs. F. I. Moats, Indianola, cochairman; Glenn Raines, Statehouse, Des Moines, secretary-treasurer, and James R. Harlan, Statehouse, Des Moines.

The main objective of the "Plant Iowa" program is to dramatize the need for more plantings in Iowa. "Plant Iowa" implies soil conservation, more gracious living, conservation in the schools, more beautiful church plantings, industrial beautification and a more prosperous Iowa.

Accomplishments

Some of the accomplishments of the "Plant Iowa" committee as reported for the period of June 1, 1954, to June 1, 1955, are as follows:
Trees—666,000; multiflora roses—

SPRING, 1956

Fruit trees, shrubs, shade trees, ornamental trees, evergreens, taxus and small fruit plants. A few items in large quantity.

Almond Pink
Barberry, Montorensis
Beauty Bush
Cotoneaster Divaricata
Euonymus Patens
Euonymus Erectus
Flowering Crab Apple
Forsythia
Honeysuckle Bush
Japanese Red Quince
Philadelphus Virginialis
Privet, Amur River North
Privet, Regel's True Type
Viburnum Dentatum
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The Pruning Manual, by E. P. Christopher. A revised, up-to-date work based on The Pruning Manual, by L. H. Bailey. Provides the most comprehensive and authoritative information available on pruning all temperate-zone fruits, shade trees and ornamental shrubs. Sections are devoted to forestry, grafting, root-pruning, wound treatment and tools. 320 p., illus. (1954).....\$5.00

Sunset Pruning Book, by R. L. Hudson. Instructions on pruning rhododendrons, azaleas, roses, evergreen and deciduous trees. Special section on how to espalier. Tools and basic pruning principles explained and illus. 80 p. (1952).....\$1.50

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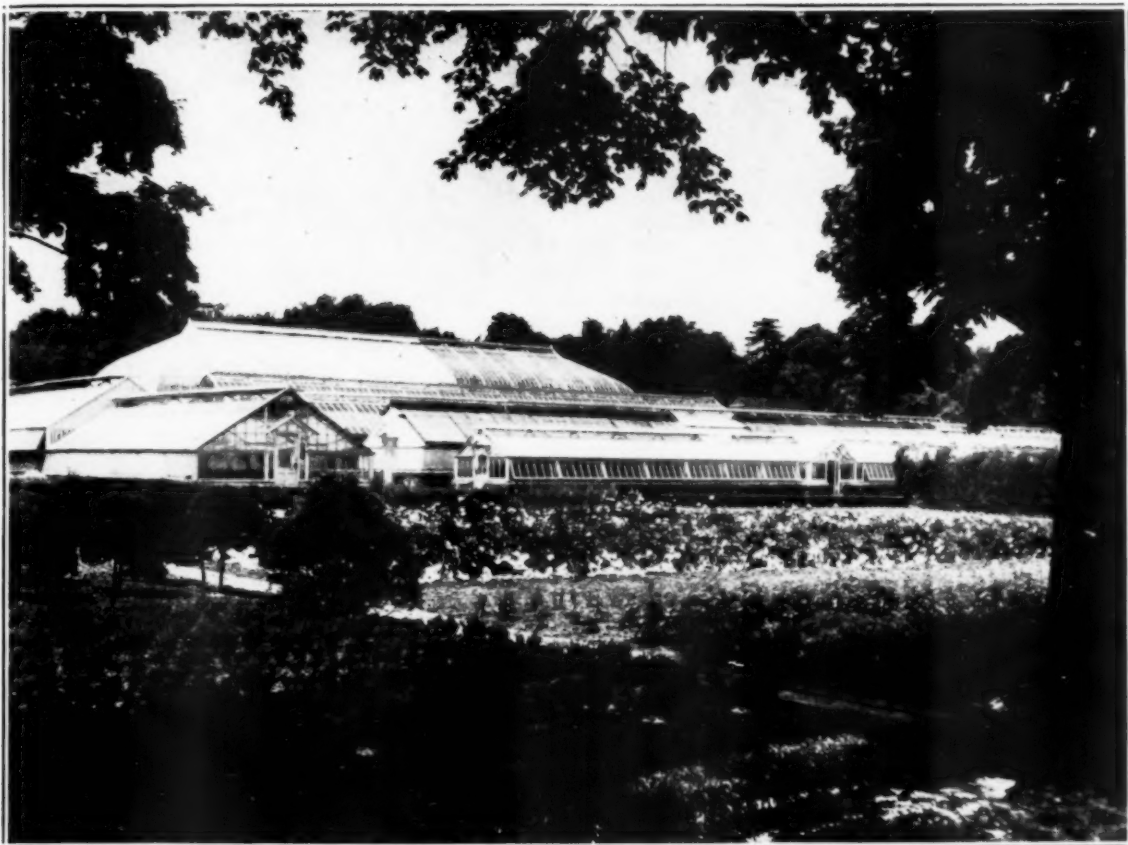
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Bulbs and Shrubs

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MENTOR, O.



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NITRO-FORM . . . the amazing new 38 per cent nitrogen fertilizer, is now ready for the market and will be in plentiful supply this year . . . wonderful news for those associated with the nursery industry!

NITRO-FORM is not just another nitrogen fertilizer . . . it is a completely new source of urea-form nitrogen that outlasts any other form of nitrogen on the market and can be applied with complete safety. It will not burn even when used in excessive amounts.

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38 PER CENT UREA-FORM NITROGEN

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- ★ **FEEDS LONGER** — will outlast natural organics 4 to 6 times. One application lasts the entire season.
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- ★ **ECONOMICAL** — will cut your labor, space and handling costs as much as 85 per cent.
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Send for this **FREE BOOKLET**
all about NITRO-FORM and
how it will help you! →



SPRING LINERS

	Per 100	Per 1000	Per 10,000 lots
Colorado Blue Spruce, X, 6 to 9 ins.	\$18.00	.....	.....
Colorado Blue Spruce, X, 4 to 6 ins.	10.00	\$75.00	.....
Colorado Blue Spruce, 3-0, 5 to 10 ins.	10.00	50.00	\$47.50
*Colorado Blue Spruce, 3-0, 3 to 5 ins.	6.00	30.00	28.00
Black Hills Spruce, X, 8 to 12 ins.	22.50	.....	.....
Black Hills Spruce, X, 4 to 8 ins.	15.00	90.00	.....
Black Hills Spruce, 3-0, 5 to 10 ins.	7.50	35.00	33.00
Black Hills Spruce, 3-0, 3 to 5 ins.	5.00	20.00	18.00
Taxus Cuspidata Capitata, X, 8 to 12 ins. (from seed, individually sheared)	65.00	.....	.....
Taxus Densiformis, X, 6 to 8 ins.	50.00	.....	.....
Douglas Fir, 3-0, 3 to 8 ins.	7.50	35.00	33.00
Mugho Pine, 2-1, 3 to 5 ins.	8.00	.....	.....
Riga Scotch Pine, 2-0, 6 to 10 ins.	10.00	.....	.....
Riga Scotch Pine, 2-0, 4 to 8 ins.	7.50	.....	.....
Austrian Pine, 2-1, 4 to 8 ins.	10.00	.....	.....
*Austrian Pine, 2-0, 3 to 6 ins.	5.00	22.50	21.00
White Birch, XX, 3 to 4 ft.	75.00

*Will quote on 50,000 or more.

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HARBOR SPRINGS, MICH.

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25 PER CENT DISCOUNT

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We are offering thousands of upright, grafted evergreens and Magnolia soulangeana at a 25 per cent discount. Carload orders solicited.

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	Each 10 rate	Each 100 rate
18 to 24 ins.	\$1.25	\$1.00
2 to 2½ ft.	1.75	1.50
2½ to 3 ft.	2.25	2.00
3 to 4 ft.	2.75	2.50
4 to 5 ft.	3.50	3.00

EUONYMUS ALATUS COMPACTUS

	Each 10 rate	Each 100 rate
15 to 18 ins.	\$0.90	\$0.75
18 to 24 ins.	1.15	1.00
24 to 30 ins.	1.40	1.25

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PALM — SHRUB — TREE

Imports the world over — Send for our list.

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Wholesale growers of the best
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Shrubs and Roses
Write for our current trade list.

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1251 Madison Ave. PAINESVILLE, O.

1,335,000; wildlife area plantings—245,000; roses in parks, along roadways and home plantings—22,000; shrubs—9,000; farm wood lots—6,000; park beautification plantings—160, and planting manuals distributed—51,000 copies.

Tree-Planting Ceremonies

Meetings and ceremonies held during the year included 41 tree-planting ceremonies, with some 3,200 persons in attendance. There were 150 planting meetings, with 3,000 participating, and more than 31,000 participated in other types of planting meetings.

Emphasis for 1956 will be on memorial plantings on church and school grounds; the growing of Christmas trees, and park and roadside beautification, along with conservation and wildlife plantings. The slogan adopted for 1956 is "Plant with a Plan."

"Plant Iowa" week has been set by proclamation of Governor Hough for April 15 to 21, at which time large numbers of ceremonial plantings will be made. The Iowa Council of Churches is cooperating by designating Sunday, April 15, as "Plant Iowa" Sunday, at which time the clergy will be asked to relate their sermons to plants and planting as related to life and living.

Those interested in a planting program or in the "Plant Iowa" program may receive the "Plant Iowa" manual, "Plant Iowa Today—for Tomorrow," plus other literature on plantings, by writing Glenn Raines, secretary, "Plant Iowa" committee, Iowa State Horticultural Society, Statehouse, Des Moines, Ia.

Glenn Raines, Sec'y.

SPRINKLER SYSTEMS

[Continued from page 13]

is a crucial point. It can be stated flatly that if seven or eight sprinklers consume more than five gallons of water per minute, or about one-half gallon per sprinkler per minute, the resulting drop in pressure in the average home will make it impossible to draw water in the house when the sprinklers are on. If that happens you can almost be sure that one or more of the sprinklers on the line is not being supplied properly with water and that, therefore, the water pattern is inefficient.

The foregoing is a pretty flat statement, but it is nevertheless true on the average, for water pressure all over the United States during the summer months runs from 30 to 40 pounds' pressure per square inch. If you turn on a sprinkler system of

Sun 'N Fun

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BOLENS
AWARDS FESTIVAL

40

VALUABLE PRIZES

GRAND PRIZE

trip for two—
all expenses
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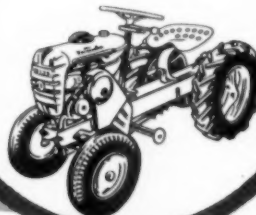
2nd prize

trip for two—
all expenses paid

WEEKEND at the WALDORF

3rd prize

Bolens famous
RIDE-a-matic tractor



ENTER NOW!

Enter Now. It's easy. Nothing to buy —
no limericks or letters to write.

Simply visit your nearest Bolens dealer,
fill out an entry blank and leave with your dealer.

Closes midnight June 15, 1956.

Contest subject to Federal, state, local regulations.

This is NATIONAL BOLENS MONTH

Ask your Bolens dealer to show
and demonstrate the leading line
of outdoor power equipment.



BOLENS PRODUCTS DIVISION

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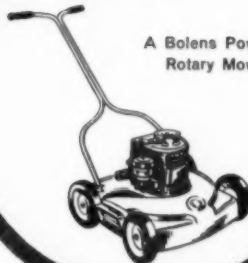
4th prize

Bolens Super
Mustang Tiller



5th prize

A Bolens Power
Rotary Mower



SURPLUS EVERGREENS

400 Pfitzer Juniper, 20 to 30 ins.	Each \$3.25
400 Pfitzer Juniper, 30 to 36 ins.	3.75
100 Golden Pfitzer Juniper, 18 to 24 ins.	2.75
100 Golden Pfitzer Juniper, 24 to 30 ins.	3.25
100 Glauca Hetzi Juniper, 24 to 30 ins.	3.25
100 Glauca Hetzi Juniper, 30 to 36 ins.	3.75
200 Irish Juniper, 5 to 6 ft.	2.75

ANNA NURSERY

F. G. Anderson, Prop.

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ANNA, ILL.

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ROSA MULTIFLORA

Grown especially for hedging.

35,000 2-yr. Ohio-grown stock, heavy, 36 to 48 ins. high, 8 to 15 mm. \$55.00 per 1000. F.O.B. Huron, Ohio. Free packing and boxing for cash with order.

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VAN WERT, OHIO • "The Peony City"

PFITZER JUNIPER

24 to 30 ins., B&B	Each \$2.50
30 to 36 ins., B&B	2.75
36 to 42 ins., B&B	3.25

Located 50 miles east of
St. Louis, Mo.

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DWARF BLUE-LEAVED ARCTIC WILLOW (Salix Purpurea Nana)

Beautiful new hedging shrub for all northern localities. Will thrive in practically any type of soil. Has fine-cut, bluish leaf and makes spectacular low-to-medium hedge. Should have full sun to develop to maximum attractiveness.

	Per 100	Per 1000
Cutback liners	\$ 6.00	\$ 40.00
9 to 12 ins., 1-yr.	12.00	100.00
12 to 15 ins., 1-yr.	15.00	125.00

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Quality Ornamentals
Since 1881

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PAINESVILLE, O.

America's Finest ROSES • BULBS • PLANTS and SHRUBS

WRITE FOR LIST MENTOR, OHIO

Wayside Gardens

seven or eight heads using not over five gallons of water per minute, the pressure will drop in the line to 20 pounds per square inch. A drop less than this starts causing the deficiencies mentioned.

Absorption Rate Important

Another important point about the gallon per minute usage rate has to do with soil absorption rates. The 5-gallon per minute sprinkler line will deliver a half inch of water over an area of approximately 1,600 square feet in two hours. This is the absorption rate on clay soils. (More friable soils will take this amount of water in less time.) The reader can immediately see that if more than five gallons per minute is supplied to 1,600 square feet on clay soils, there will be a runoff and wastage of water. So to eliminate questions about what kind of soil a customer has, it is desirable to install systems that are engineered to the clay rate. In other words, a nurseryman then does not have to worry about water waste, and by merely observing the grass, the customer himself can readily determine how long to run his system in order to irrigate the area properly.

The two points named are neat ones. There are, however, other considerations in choosing the kind of system to sell. To begin with I believe it desirable to choose a system having sprinkler heads engineered so that they are not adjustable, for this eliminates the problem of having the customer tamper with water flow. This, in turn, eliminates service calls, an important item. Heads engineered without adjustment features are known as multiple-orifice heads; they are almost like a rose spray, but the holes are much smaller. Most single-orifice heads are adjustable. Stay away from them unless water supply and pressure are abundant and high.

Virgin Plastic Essential

After determining this factor, the next thing to do is to take a good hard look at the kind of plastic pipe and plastic fittings offered by the manufacturer. For pipe, only virgin polyethylene should be bought. How does the nonchemically trained nurseryman discover this? He had better inquire. But here is a guide: Most industrial-grade polyethylene pipe is usually made of virgin plastic, not from scrap. You can determine quickly if the pipe is of an industrial grade because it will be stiff and not too easy to bend, although by forcing it carefully, you can turn very sharp corners. The walls of in-

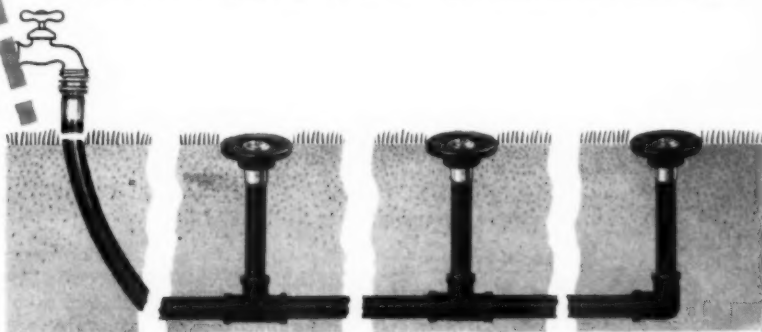


**Two newcomers
to nursery business
gross \$25,000 in 3 months
with **Quaker** Perma-Sprinkler
UNDERGROUND SPRINKLER SYSTEM**

\$25,000 gross sales in 3 months! That's *real* money—the healthy business record piled up by two young beginners in *your* own field. These enterprising Long Islanders had the vision and alertness to instantly see the tremendous potential of Perma-Sprinkler installations as a natural adjunct to their business. Actual profit? \$13,884 after paying their one installation helper \$1116 for 93 days work. Can *you* afford to pass up this kind of potential? If not, let us send you details on the Perma-Sprinkler. Write.

Advertised in

- Better Homes and Gardens
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Perma-Sprinkler
bears the seal of
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*A "Natural" for
the home owner -
Big profits for you*

Jeff - Lite Lifetime Underlawn Sprinkler System

- ✓ Easily installed
- ✓ Square spray pattern
- ✓ Heads easily adjusted
- ✓ No special tools needed
- ✓ No damage to growing turf
- ✓ Will not rust or rot
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*A size for every lawn
Kit 103 Covers 1000 sq. ft.
Retail at \$16.95*

*Kit 102 Covers 1800 sq. ft.
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*Kit 101 Covers 2200 sq. ft.
Retail at \$47.50*

*Additional pipe and parts
to "Custom" fit larger
lawns and estates*

Order Now!

*Take advantage of our
Nation-wide advertising*

*For more information
write*

*Industrial Plastic Co.
Box 1188 - Plainfield, N.J.*

dustrial-grade polyethylene pipe are also thick, much thicker than you ever find in a good grade of plastic garden hose. Thickness is important, because the pipe should never kink. A kink is always a weak spot and will be the first place to leak. Such leakage from a kink is a mechanical and not a chemical failure.

Plastics other than polyethylene are usable, but I refuse to recommend them, because materials used in compounding such plastics will support the growth of fungus on the inside of the pipe, causing scum to clog sprays, but not pipe failure.

Fittings

Fittings should be made of highly elastic hard plastic. Styrene is in general use for underground water systems, and it is quite good for that purpose. However, as water pipe it is invariably buried deeply; therefore frost is not a problem. Ordinary grades of styrene will crack when frozen. Even the superior high impact grades of styrene, although they will not crack, will "grow"; to put it another way, freezing results in the expansion of such a fitting, which will not come back to original dimensions. This causes leakage at the pipe connections and ultimate failure of the system. It is impossible to tell by looking at a fitting what kind of plastic it is made from. You should get a guarantee that these fittings are all made of high-elasticity plastic that will not crack or "grow" under frost conditions. You do not have to worry about a guarantee on plastic pipe made out of virgin polyethylene; it is highly elastic and will not be damaged in any way by frost.

Another point is to choose a system that supplies anti-syphon valves. Sanitary codes in several states and in many cities prohibit use of sprinkler systems without some sort of an anti-syphon device to keep the water from coming back into the house water system. Strangely enough, this happens when the valves are apparently closed. But enough stagnant and bacteria-laden water can back up in a house (even a teaspoonful of it) to cause illness. A nurseryman installing such a system will feel safer if he supplies this sanitary valve.

Manufacturers' Service

In canvassing the sales plans of the various manufacturers, I found that some offered free engineering sales service—plans sent to them were O.K.'d or changed quickly. Manufacturers who offered this service stated that it was largely educational and pointed out that some of their best accounts (who used the service

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	Each	100 rate
Euonymus alatus		
500 15 to 18 ins.,		
branched	\$0.50	
1100 18 to 24 ins.,		
branched60	
200 24 to 30 ins.,		
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Euonymus alatus compactus		
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branched75	
Silver Maple		
450 1 to 1 1/4-in. cal.,		
8 to 10 ft.,		
branched	1.25	
400 1 1/4 to 1 1/2-in. cal.,		
8 to 12 ft.,		
branched	2.00	
Prunus Vesuvius		
50 3 to 4 ft., branched..	1.00	
150 4 to 5 ft., branched..	1.25	
200 5 to 6 ft., branched..	1.50	
California Privet		
	1000	
	100 rate	rate
600 12 to 18 ins.,		
3 br. and up	\$ 4.50	\$35.00
1200 18 to 24 ins.,		
3 br. and up	5.50	45.00
2200 2 to 3 ft.,		
4 br. and up	7.50	65.00
680 3 to 4 ft.,		
5 br. and up	10.00	90.00
Viburnum opulus		
1400 3 to 6 ins., 2-yr., S...	6.00	40.00
1100 6 to 9 ins., 2-yr., S...	10.00	80.00
Usual terms to those with established credit; otherwise cash with order. Prices F.O.B. Romeo. Boxing and packing at cost.		
PONTIAC NURSERY CO.		
ROMEO, MICH.		

LINING-OUT STOCK

	Per 100	Per 1000
Vicary Privet		
rooted cuttings	\$10.00	\$ 80.00
2-in. rose pots, 2-yr..	18.00	150.00
Forsythia Lynwood Gold		
rooted cuttings	10.00	80.00
2 1/4-in. pots, 2-yr....	15.00	135.00
Teucrium chamaedrys		
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frequently in the beginning) were competent enough after a short time to handle all problems themselves. There are feeder line problems for custom systems that need not be described here. It is enough to say that, although tricky, they are not at all difficult to solve, particularly when one deals with factories offering engineering service.

It seems hardly necessary to advise nurserymen to purchase from those manufacturers having extensive well-stocked distributors. Such distributors should carry the parts and kits in inventory, not the nurserymen.

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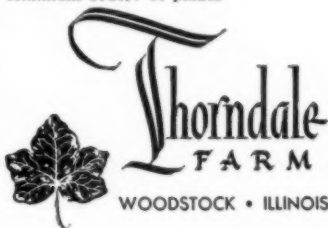
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Discusses color and its use, texture, art of design, groupings and arrangements; ecological factors, such as soil, climate, light and drainage; designing plantings around buildings and public plantings. 215 pages, illustrated.

HOW TO BEAUTIFY AND IMPROVE YOUR HOME GROUND. by Henry B. Aul (\$3.50).

Provides plans, sketches, arrangements, terrace ideas, work and play centers, vegetable, flower, shrub and tree plantings. Modern ideas. 155 plans, drawings and illustrations. 320 pages.

HOW TO PLANT YOUR HOME GROUND. by H. B. Aul (\$3.50).

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HOW TO LANDSCAPE YOUR GROUNDS. by L. R. Johnson (\$3.50).

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LANDSCAPING YOUR HOME (Sunset Magazine) (\$1.00).

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Plans for suburban, country and city homes, including crowded areas in large cities, back yards, penthouses, outdoor living and dining rooms, etc. A wide range of plans applicable to many conditions and situations. 48 pages, paper-bound.

These books and others on horticultural subjects are available at the publishers' price through the

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Books for Plantsmen

An editorial plea for greater accuracy in plant nomenclature in American catalogs appeared in *American Nurseryman* for February 15, 1956. The nurseryman "owes it to himself, to his customers and his calling," the editorial declared, to become familiar with the correct form of the plant names he uses.

For the serious-minded plantsman who respects his profession and his merchandise, a small, but comprehensive reference library can be of considerable assistance—not only for checking accuracy, but also as a source of general information about cultivated plants. Authoritative reference works on cultivated plants are neither numerous nor cheap. Still, whether they are on the nurseryman's private bookshelf or readily available in libraries, the use of them can help to eliminate confusion and technical errors in the business.

Basic Books

This list of basic reference books has been recommended by Dr. George H. M. Lawrence, director of the L. H. Bailey Hortorium, New York state college of agriculture, Cornell University.

"Manual of Cultivated Trees and Shrubs Hardy in North America," by Alfred Rehder. Macmillan Co., second edition, 1940, \$12.50.

"Manual of Cultivated Plants," by L. H. Bailey and staff of Bailey Hortorium. Macmillan Co., second edition, 1949, \$18.50.

"Bibliography of Cultivated Trees and Shrubs," by Alfred Rehder. Arnold Arboretum, Harvard University, 1949, \$20.

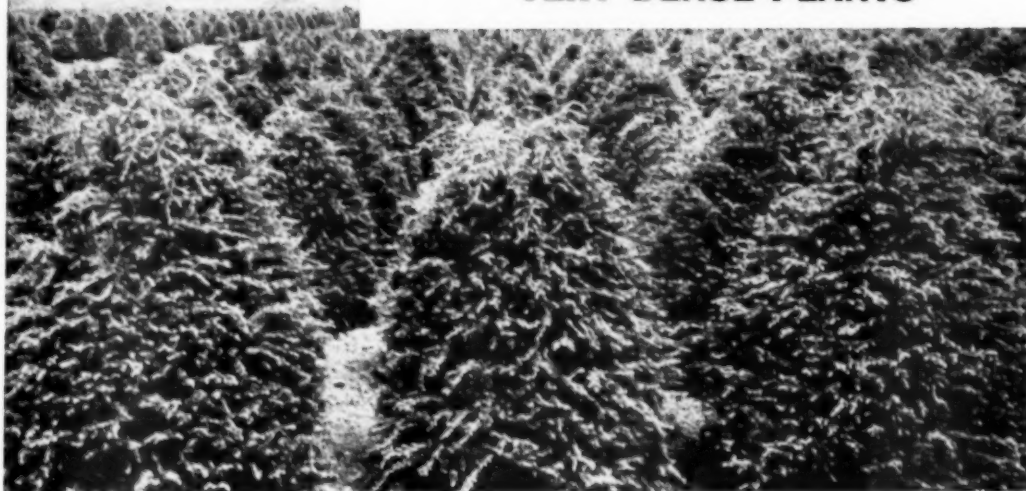
"Hortus Second," by L. H. Bailey and E. Z. Bailey. Macmillan Co., 1941, \$12.50.

"The Standard Cyclopaedia of Horticulture," edited by L. H. Bailey. Macmillan Co., 1914-17, \$52.

For half a century the late Dr. Alfred Rehder, curator of the herbarium of the Arnold Arboretum, was known as the authority on identification and nomenclature of temperate cultivated trees and shrubs. When Dr. Rehder was a young man working as a gardener in the botanic garden at Berlin he corresponded extensively with Dr. Bailey. As a result, Dr. Bailey hired him to prepare most of the accounts of temperate woody plants for the "Cyclopaedia of American Horticulture" (1900). Later Dr. Rehder was

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brought to the United States as a staff member of Arnold Arboretum. When Dr. Bailey undertook his "Standard Cyclopedia of Horticulture," a work still unsurpassed in its field, he again hired Dr. Rehder to prepare many of the treatments of the temperate trees and shrubs.

For 30 years the bible of all nurserymen in temperate regions has been Rehder's "Manual of Cultivated Trees and Shrubs," a technical work revised in 1940 and generally regarded as the standard reference on temperate trees and shrubs throughout the world. More than 2,500 species appear in the keys and are fully described. Almost as many more related species are treated under those kinds accounted for in the keys. Also helpful are Rehder's seven zones of hardiness based on average annual minimum temperatures. Species from subtropical and warmer temperate regions are not included. Although only 15 years old, the manual is already out of date and badly in need of revision. It is hoped that the staff of the Arnold Arboretum will soon take up the task.

Rehder's Bibliography

Rehder's "Bibliography," covering species hardy in the cooler and tem-

perate regions of the northern hemisphere, was begun as a supplement to his "Manual." In it, Rehder has given the accepted scientific name of every kind of plant treated in the 1940 edition of his "Manual," together with a complete list of synonyms. For each of these names he has given also the name of the author of that name and the place and date of publication. The nomenclature of the "Manual" has been brought up to date, as of 1949. To make the "Bibliography" more complete, some kinds of plants not in the "Manual" are included. No descriptions are given, of course, for the work is devoted exclusively to nomenclature and sources. The index of the "Bibliography" is one of the most useful parts, as far as nurserymen are concerned. For, if an old name for a plant is known, it is simple to find the place where the correct name for that plant is given.

As is well known, Dr. Bailey was a prodigious writer of horticultural literature, especially reference works. His first encyclopedia of horticulture was begun before 1900 and was published in three volumes in 1900-02. This work was superseded by a new encyclopedia, the first volume of which appeared in 1914. His first "Manual of Cultivated Plants"

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(1924) was a pioneer effort, since no book of its like in any language had appeared. The completeness of each edition of "Hortus" has never been approached by another work. Dr. Bailey not only set patterns in the types of books he wrote, but also established standards for the quality and authenticity of their contents. Through his establishment of the L. H. Bailey Hortorium, all these basic reference works are assured of continually revised editions.

Bailey's "Manual"

Bailey's "Manual" is much less exhaustive than Rehder's. Instead, it accounts for all commonly cultivated plants, herbaceous and woody, of the tropics as well as of the temperate regions. One basis used to determine what kinds should be included was always to account for every name that appeared in the lists of 10 or more firms. Exceptions to this rule of thumb are many. Plants known to be cultivated to an appreciable extent but for various reasons carried by few firms are also included. Here, especially, are many of the stove plants, the foliage plants, some culinary herbs and aquarium subjects. There are included also those recently introduced species which the editors considered commercially promising, a number of experimental food plants and some European species of historic interest. Besides the usual keys and descriptions, there is a list of English equivalents of the Latin names applied to plants—the English meanings of specific and varietal epithets—a feature unique in this book. The "Manual" is designed for the average horticulturist, rather than for the specialist. Its second edition was published in 1949.

"Hortus Second," a concise dictionary of gardening and general horticulture, is a source book of all the known kinds of plant materials, listed by scientific names, available in North American horticulture. For each kind it gives common names, when available, definitions of the descriptive terms used, enumerations

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of the cultivated genera of families of plants and brief directions on propagation, cultivation and use. The preparation of this volume was based on studies of the over 200,000 herbarium specimens at L. H. Bailey Hortorium, on extensive studies of living plants, on the published revisions and monographs in the world's botanical literature and on the indexes prepared from catalogs of seeds and nursery stock.

"Hortus Second" is now being revised. The new work will be named Hortus III, and the present schedule calls for completion of the manuscript late in 1959.

Cyclopedia of Horticulture

"The Standard Cyclopedia of Horticulture" came out originally in six volumes during the period 1914-17. A so-called second edition appeared in 1922, differing from the first in the correction of less than a hundred typographic errors. Since 1925 the work has been printed on thin paper and bound in three volumes. Because of the user's natural tendency to confuse the presence of a conspicuous printing date with the effective date of the contents, he should be advised that there has been no change in content of any so-called edition of this classical work since it was first published. The contents date from 1914. This monumental work is so well known that further comment here is unnecessary.

The Bailey Hortorium will commence work on a new Bailey's "Cyclopedia of Horticulture" as soon as "Hortus III" is finished. About 2,800 of the requisite 6,000 new figures have been completed, and many new keys have been prepared.

"Standardized Plant Names," edited by Harlan P. Kelsey and William A. Dayton and published in 1940, promised to become the bible of plantmen. It has served its purpose well, but is fast becoming out of date, both as to completeness of its entries and accuracy of its nomenclature. Inquiries fail to produce any indication that a new edition is being contemplated.

CHARLES F. MILTON has started a landscape and tree service business at Wassaic, N. Y. With 15 acres of land, he plans to grow shade trees.

RALPH PLUMMER, Plummer Florist & Nursery, Richmond, Tex., was cochairman of the Houston, Tex., Landscape and Nurserymen's Association garden exhibit committee for the Houston flower show this spring.



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24 to 36 ins.	35.00 300.00
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PLANT NOTES HERE AND THERE

By C. W. Wood

Aruncus Sylvester

During recent correspondence, a longtime grower of herbaceous plants brought up the fact that he had to give up the propagation of *Aruncus sylvestris* because his customers complained that the plant seeded all over their gardens, creating havoc in their choicest plantings. True, how true! The plant can make a nuisance of itself, but it need not be, for the species is what botanists call dioecious; so if the female plants are discarded, there is no chance for seedlings to come on the scene. And it is easy to distinguish between the two sexes, even without going to the work of examining the flowers, for the pistillate flowers droop while the staminate flowers are erect. The plant then is a choice and distinctive one for a position at the back of a border.

A. sylvestris will grow six or seven feet tall in good moist soil, with pretty, divided leaves and long spikes of small, white flowers, resembling astilbe, in summer. It grows best with constant moisture, though it gets along quite well in ordinary soil if given some shade.

The nomenclature of the plant has some interest. Linnaeus put it in spiraea, making it *S. Aruncus*; Herman Karsten called it *Aruncus aruncus*, and finally, Kosteletzky named it *Aruncus sylvestris*, the name now used for the most part, though it is still seen in nurseries and gardens under the old Linnaeus name.

Lychnis Viscaria

Writers who cannot look at any color more lively than pale orchid or creamy yellow without a shudder have been so vehement in their condemnation of the "barbaric" color of the German catchfly that many gardeners, especially those who think pastels smart, think they do not like it either. That is too bad, for I have watched many of them warm up to *Lychnis viscaria splendens* flore-pleno before they knew what it was. Be that as it may, the neighborhood grower will never know how his customers will react to its color until he puts it in his show garden. Personally, at my nursery I never had enough *lychnis* to go around. I have had inexperienced gardeners shy away from buying it

at first, because they thought the double-flowered form was a temperamental carnation, but when they were assured it was indestructible, no further effort was needed to make a sale.

The double-flowered variety of *splendens* will be of most interest to the nurseryman and his customers. The plant's color, a reddish purple or, as the salesman might prefer, deep rosy red, is really not so bad as it sounds, though the fastidious gardener would want to use great care in selecting its color companions in the garden. Its height of a foot to 15 inches, depending largely upon the fertility of the soil, makes it acceptable for many roles in borders, including edgings, and it is not out of place in larger rock gardens.

It is as easy to propagate the

double-flowered form as it is to grow it afterward, requiring only pulling the tufts apart, with a bit of root attached to each piece. The pieces, planted in light soil in a frame, kept under about half shade and watered as needed, are usually rooted within three weeks, when they are ready to be lined out.

Rabbit Brush

I have been heartened during recent years to see a rabbit brush here and there in gardens and occasionally one new to me offered in lists. For instance, recently I saw *Chrysothamnus platensis* offered in a western dealer's list. I have never seen it, but its description—a plant that grows a foot tall, is clothed in gray leaves (incidentally, gray or silvery foliage seems to be a badge of these inhabitants of near-desert

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places) and produces showers of pale golden flowers in autumn—sounds as if it would be highly useful in the garden.

At the moment I do not find a statement on the number of rabbit brush varieties known, but there must be many, for I remember reading somewhere years ago that *C. nauseosus* had at least 20 known varieties in the wild. So far as I have traveled among them, I find them a charming clan. For instance, *C. graveolens*, a species nearly always fragrant and having a pleasing honey scent in this case, was long one of September's best offerings in my dry garden. At that time, the 30-inch bush, with gracefully arching branches clothed in silvery leaves, was covered with a cloud of pale gold flowers, like a shrubby, refined golden rod. Propagation is from fall-planted seeds and perhaps from cuttings.

Viola Labradorica

From Greenland and Labrador, southward "to cool or alpine situations of Maine, New Hampshire and northern New York," *Viola labradorica*, one of the true violets with leafy stems, occurs naturally. Its natural range has kept it from the notice of most Americans and has

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Hugonis, yellow	160	1870	425	...	
Rugosa alba, single, white	110	100	...	50	
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**100 AMERICAN HOLLY, 8 to 10 ft.,
well-berried specimens—\$65.00 each.**

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La Grange Rd.

LYNDON, KY.

50,000 SHADE TREES

Chinese Elm	
5 to 6 ft., 1/2-in. cal.	\$0.50
6 to 8 ft., 3/4-in. cal.	.75
8 to 10 ft., 1-in. cal.	1.00
1 1/4 to 1 1/2-in. cal.	1.50
1 3/4 to 2-in. cal.	2.00

Reduced price if in truckload lots.

LUKE NURSERY
PAULS VALLEY, OKLA.

Phone: 116

JUNIPERUS VIRGINIANA

(Red Cedar)

	Per 100	Per 1000
6 to 12 ins.	\$2.50	\$20.00
12 to 18 ins.	3.50	30.00
18 to 24 ins.	5.00	45.00
Understock		
grafting grade	6.00	50.00

VINCA MINOR

As dug, not graded.... 2.50 20.00

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Juniper Grafts

Lining-Out Stock

Specimen Evergreens

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COLORADO TREE SEED

Blue Spruce and Concolor Fir
Order it direct from the collector.

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SILVER CLIFF, COLO.



**SEMME'S
NURSERIES**

AZALEAS - CAMELLIAS
and other choice evergreens

Wholesale Catalog SEMMES, ALA.

no doubt also contributed to the opinion of many who have heard of it that it would be difficult of cultivation in most of the United States.

It is unfortunate that native violets have a poor reputation among our gardeners, for many of them have much garden value. It is true, of course, that many have far more foliage than flowers, and often the flowers of the floriferous kinds are hidden among the leaves. There are exceptions. In fact, the little-known *V. labradorica* has landscape possibilities, on which the literature is strangely silent. The plant forms neat little tufts of persistent, pretty bronzed leaves, often tinged with purple. Planted in wide masses, it makes a nice carpet of foliage, and then, when it becomes an undulating plain of violet-purple flowers in late spring, it is something to enthuse over.

In trials here in northern Michigan years ago, *V. labradorica* did best when given some shade and in a slightly acid soil. I am not fully convinced, however, that the latter is an absolute necessity, but it was readily apparent that a lime-free medium was preferred by the plant. Its natural range would indicate that it needs a cool situation, and its behavior here confirms the supposition. Otherwise it was easy to handle in the trials, coming readily from fall-sown seeds and growing well in a lath-shaded frame. Several native woodland plants, including *Trillium grandiflorum* and *Sanguinaria canadensis*, grow well in the same habitat, making it easy for the neighborhood grower to sell combinations of plants for shady spots or plant combinations himself if he does landscape work.

Ideas

Always on the lookout for ways to use one of my favorite hardy plants, pinks, I was delighted last summer to see them used to edge the top of a wall surrounding a sunken garden. Incidentally, the sunken garden is an intriguing form of garden architecture that a landscape man should investigate fully if he does not now use it in his work. The pinks were not tied up to stakes, as is often done to keep stems from flopping on the ground, but were allowed to grow naturally, and they cascaded over the side of the wall, displaying their charm and sending forth their fragrance, so that one could see and smell them without bending.

I notice that a few gardeners are using portable, miniature floodlights to pinpoint at night some of their

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FLOWERING CRAB APPLES

ALAMEDA, purple-rose flowers, wine-red fruit

ALMEY, fiery-crimson flowers, maroon fruit

ARROW, purplish-red flowers, red fruit

ATROSANGUINEA, carmine flowers, reddish fruit

BACCATA, white flowers, red or yellow fruit

ELEYL, vinous-red flowers, purplish-red fruit

FLORIBUNDA, rosy-white flowers, yellow and red fruit

FLORIBUNDA PURPUREA, purplish-red flowers, purplish-red fruit

GENEVA, purplish-red flowers

GLORIOSA, purplish-red flowers, bright red fruit

HOPA, rosy flowers, red fruit

MAKAMIK, China rose flowers, purplish-red fruit

NIEDZWETSKYANA, purple-red flowers, bright red fruit

RED SILVER, China rose flowers, purplish-red fruit

SCHEIDECKERL, pale pink flowers, yellow to orange fruit

CORNUS FLORIDA RUBRA

(Pink-Flowering Dogwood)

Growers of a complete line of general nursery stock.

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outstanding blooms, as a spectacular daffodil in spring or even a datura in summer. More pleasing to me are the effects of the mellow light of a lantern—for instance a ship's lantern—carried around the garden in the evening.

The use of window boxes as miniature gardens, especially in cities, is becoming more popular from year to year. It will be good news to the grower of unusual perennials that permanent plants, including dwarf and low-growing evergreens as well as perennials for foliage effects, are largely replacing the usual annuals that have been adorning window boxes for years.

I notice that gardeners are becoming more and more conscious of foliage effects. That does not mean that they are going to use variegated foliage to the exclusion of flower color; rather, it seems to me, they are discovering the value of the different shades of green and gray leaves as backgrounds for their flowers.

The Garden in Shade

An eastern correspondent asks for specific recommendations on building up a soil for a permanent planting on the north side of a house. His client requested a soil that will carry the plants through years without the

BASIC REFERENCE BOOKS

Manual of Cultivated Trees and Shrubs, by Alfred Rehder. Completely revised and enlarged. Description of trees and shrubs. Glossary of botanical terms. Describes more than 2,500 species of trees and shrubs with their varieties, with some cultural notes. 996 p. (1940).....\$12.50

Manual of Cultivated Plants, by L. H. Bailey. Revised edition, greatly expanded and up to date. Means of identification of fruits, grains, grasses, vegetables, greenhouse plants, ornamental shrubs, plants and garden flowers, with explanation of more than 1,000 botanical terms. 1,116 p., 194 illus. (1949) \$18.50

Hortus Second, compiled by L. H. and E. Z. Bailey. Brings *Cyclopedia of Horticulture* up to date in condensed form. 778 p. (1941).....\$12.50

Standard Cyclopedia of Horticulture, by L. H. Bailey. Descriptions, botanical and common names and concise notes on culture and propagation. It contains detailed discussions of more than 40,000 plants, besides general articles. This work has long ranked as the most complete on horticulture in America. 3,680 p. 3-vol. set.....\$52.00

Standardized Plant Names, second edition, prepared by American Joint Committee on Horticultural Nomenclature. Standard authority on plant names. 90,000 scientific and common names. 673 p. (1942).....\$10.50

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Abelia grandiflora

(Glossy Abelia), field-grown

12 to 18 ins., C.....	\$ 9.00	\$ 80.00
12 to 18 ins., 2 br.....	11.00	100.00
18 to 24 ins., 3 br.....	16.00	150.00
2 to 3 ft., 4 br.....	25.00	

We have over 50,000 of two and three-year-old Abelia. Let us book your order while they last.

Hydrangea paniculata grandiflora

(Peegee Hydrangea)

6 to 12 ins., C.....	6.00	50.00
12 to 18 ins., 2 br.....	9.00	80.00
18 to 24 ins., 3 br.....	16.00	150.00
2 to 3 ft., 4 br.....	25.00	

Spiraea vanhouttei

(Van Houtte Spiraea)

6 to 12 ins., C.....	3.50	25.00
12 to 18 ins., C.....	4.50	35.00
12 to 18 ins., 2 br.....	6.00	50.00
18 to 24 ins., 3 br.....	8.50	75.00
2 to 3 ft., 4 br.....	20.00	

Cornus florida

(White-flowering Dogwood)

	Per 10	Per 100
2 to 3 ft., whips.....	\$ 2.00	\$ 15.00
2 to 3 ft., well-br.....	5.00	40.00
3 to 4 ft., well-br.....	8.00	70.00
4 to 5 ft., well-br.....	11.00	100.00

NATIVE EVERGREENS

Rhododendron maximum, Kalmia latifolia, Ilex opaca, Tsuga canadensis

Per 100 Per 1000

3 to 6 ins., S.....	\$3.00	\$20.00
6 to 9 ins., S.....	4.00	30.00
9 to 12 ins., S.....	6.00	50.00
12 to 18 ins., S.....	8.00	70.00

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AARS winners and 100 other popular varieties. In attractive, colorful packages or bare root.

PECAN TREES

Beautiful shade, productive too! Prolific varieties. Sizes 1 1/4 to 12 feet. In attractive packages or bare root. Get stock list and prices.



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WACHAPREAGUE, VA.
J. L. Legendre, Pres.

CRAB APPLES FOR AMERICA, by Donald Wyman. Breeding, propagation, culture, sources of supply. 63 p. \$2.00.
American Nurseryman Chicago 4, Ill.

need for replenishing the humus content. I can do no better, I believe, than tell of a planting made at a summer home in this section of northern Michigan about 15 years ago which continues in good condition at present, having had only a few leaf mulches and an occasional replacement of plant material. The latter is, of course, a part of every perennial planting, but there are fewer losses if the soil is suited to the plant material. In the planting referred to, the ground was trenched 18 inches deep, and the bottom spit was discarded entirely, being replaced by woodland soil. In addition, the whole area had a generous quantity of leaf mold incorporated into the natural soil, making a growing medium suited to most woodland plants that will last a long time. Of course, the question of acid or alkaline reaction has not been taken into account, but that depends entirely upon the kind of plants used.

Eryngium Alpinum

The alpine blue thistle, Eryngium alpinum, is one of the noble kinds, growing four feet tall in the rich, limestone soil that it needs. After growing and observing the plant in other gardens and watching the stately, stiff stems change from greenish blue to blue and finally to a brilliant deep amethyst, one can appreciate Farrer's enthusiasm when he wrote: "In the unsurpassable E. alpinum the frill is double, treble, quadruple, and each bract is toothed again and again into long, thorny-looking spines of its own, until the whole effect is of a blue lacy collar of richness unparalleled." This rich, blue color extends from stem to bract to flower head and is held from early to late summer, making the plant a pleasing ornament during that long period.

The Bunchberry

Another admirer of the bunchberry wondered in a recent letter why it was not more often seen in gardens. As I told him, I suspect that many a gardener has become discouraged by losses of the plants because they were not told how to handle them. And I also suspect that some have suffered losses because they tried to grow the plant in sections of the country where the summers are too hot or at least in situations where no consideration was taken for their need for coolness.

But probably of far more harmful effect on the plants' health is the apparent lack of knowledge of their soil preferences. I have examined many natural plantings of the

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- NUT TREES
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- EVERGREENS
- CALIFORNIA GROWN ROSES
- HEDGES and VINES

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Our General Line of SMALL FRUIT PLANTS

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FARMINGTON 8, MICHIGAN

Azaleas, Camellias and Magnolias
our specialties.
Semmes, Ala.

CANNED PLANTS
Build profits with Wight's container-grown evergreens. Wide assortment, including Ilex, Magnolia, Camellias, Pyracantha. Ask for wholesale list.
Wight NURSERIES CAIRO, GA.

bunchberry throughout northern Michigan and have yet to find them in anything but soil of intense acidity and, secondarily, usually in cool moist woods. I have also examined many catalogs to find bunchberry, and where it is listed, the fact that it needs an acid soil is seldom mentioned. That is to be regretted, because it could be one of our best ground covers for shady places if its cultural needs were better understood.

The plant is a woody perennial, usually growing six to eight inches tall, with leaves in whorls often taking on pretty red tints in fall, heads of small flowers in large, white bracts and bunches of red berries in autumn. It is easily propagated by division of the running rootstock and from fall-sown seeds.

Oriental Poppy

I had some notes assembled on the Oriental poppy, Helen Elizabeth, particularly on its history, but have mislaid them for the time being and cannot go into that phase of the plant now. But notes are not needed to say that it is one of the best of the pink-flowered kinds that I have seen. In fact, for size of flower, stately growth (to three feet) of rugged stems, clear pink color (La France, according to the color experts), without marring spots at the center, and general floriferousness, I doubt if it can be topped today.

Propagating Miniature Roses

The following is in answer to a Pennsylvania reader: Miniature roses are easily propagated from soft cuttings whenever available, usually from June onward in the open and in late winter from forced plants. In either case, handle the cuttings in the normal way of ordinary soft cuttings, preferably with bottom heat for best results. There will be more cuttings of better quality if the stock plants are kept in rich soil. Best results will be obtained also if the rooted cuttings are potted in ordinary rose soil and kept under controlled conditions of moisture and temperature.

NUT ARBORETUM

The Northern Nut Growers' Association has made tentative plans to start a cooperative nut tree planting at the new Holden Arboretum, at Mentor, O. The arboretum, about 25 miles east of Cleveland, has about 500 acres of land and will inherit several millions of dollars. This will make it the wealthiest arboretum in America.

H. W. D.

INSURE THE STANDS IN YOUR NURSERY ROWS BY PLANTING OUR CHOICE POTTED LINING-OUT STOCK

Well Established in Dowfume MC-2 Sterilized Soil.

Write for our complete list today.

Prices are reasonable.



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See our classified ad under lining-out stock.

PINK FLOWERING DOGWOOD

CORNUS FLORIDA RUBRA

12 to 18 ins.	\$0.75 each
18 to 24 ins.	1.00 each
2 to 3 ft.	1.25 each
3 to 4 ft.	2.00 each
4 to 5 ft.	4.00 each

Write for Color Descriptive Catalog No. 25

Add
10% extra
for orders
less than 100.



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15,000 SPECIMEN B&B EVERGREENS

CANADIAN HEMLOCK—sheared, sizes 2 to 6 ft.

JUNIPERS—Pfitzer, Hill's Golden, compacta, Von Ehrn, hetzi and hibernica.

TAXUS—andersoni, wardi, hicksi, hatfieldi, browni, media, wymani and cuspidata. Landscape sizes up to 3 ft.

Write for prices.

Loaded to trucks F.O.B. nurseries.

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SHRUBS AND VINES FOR AMERICAN GARDENS, by Donald Wyman. Planting guide for florists and nurserymen. \$7.50. American Nurseryman, Chicago 4, Ill.

FRUIT TREES

	1-in. cal.	3/4-in. to 1-in. cal.	1 1/16-in. cal.	9/16-in. cal.	7/16-in. cal.	3 to 4 ft.
PEACH	65c	60c	55c	45c	35c	30c
Belle of Georgia	160	100	450	200	...	...
Elberta	370	620	238	646	179	...
Halehaven	85	...	...	140	70	...
Champion	150	185	170	246	200	...
Dixgem	...	70	30	50	30	...
Golden Jubilee	70	162	168	240	220	...
Redhaven	...	25	...	50	50	150
J. H. Hale	65	25	...	170	140	...
Red Skin	205	140	160	140	120	...
Early Elberta	55	145	230	130	180	...

APPLE						
Lodi	50	160	30	10	10	...
Double Red Stayman	...	50	...	...	...	...
Yellow Delicious	75	...	48	...	40	...
Yellow Transparent	...	10	...	20	5	...
Early Harvest	45	65	...	...	...	...
Double Red Rome Beauty	...	75	60	15	...	...

APRICOT						
Early Golden	...	...	15	...	70	40
Superb	...	105	99	70	140	...


DOUBLE-FLOWERING PEACH						
		5 to 6 ft.	4 to 5 ft.	3 to 4 ft.	2 to 3 ft.	
Red	...	75c	60c	40c	30c	...
White	...	70	55	20

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Day Lilies

	Per 10	Per 100
August Pioneer	\$2.50	\$20.00
Hyperion	3.00	25.00
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BEARDSLEE NURSERY Perry, O.

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Evergreens, Trees
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Send us your want list

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CHINESE CHESTNUT TREES
Seedlings only of the Peter Lui strain, in 1-yr. whips, from 6 ins. to 4 ft. Your inquiries invited.

LEELAND FARMS
LEESBURG, GA.

LANDSCAPE IN A DAY

[Continued from page 17]

the service area to the side street. Tall plantings and a redwood fence screen the area, and the fence extends along the back of the property to add to the privacy of the dining terrace.

Flowers planted in borders at the base of shrubs will provide bright colors in the landscape most of the year, as well as blooms for cutting. In addition, flowers in borders are easier to care for than if planted in small beds scattered around the lawn. A masonry mowing strip around the edge of the lawn was included to make trimming easier and keep a neat edge between lawn and shrub border.

Plants and shrubs grown in containers made the demonstration planting easier, and sizable, well-grown B&B trees were planted.

Publicity Program

Advance publicity for the landscaping project by the Florida Nursery & Landscape Co. utilized direct-mail, radio and newspaper media. Letters were sent to newspaper, radio, TV and trade magazine officials describing the project and requesting suggestions. Letters of invitation to attend the event were sent to building contractors, bankers and savings and loan firm officers. Local homeowners in the immediate trade area, heads of garden clubs throughout central Florida and students enrolled in a gardening and landscape school held under an adult education program all received a 4-page bulletin describing the project, showing a picture of the house as it was and a ground plan of what was to be done. These mailings went to about 12,000 persons.

A news release and spot advertising on the local and regional radio stations, release of the news story and picture of the plan for the landscape to TV stations at Orlando and Tampa and news stories on various aspects of the project released to Leesburg, Tampa and Orlando papers carried the advance publicity along up to the day of the actual work.

The day-long demonstration was covered by local newspaper photographers, TV and newsreel cameramen and a Life magazine photographer. A full-length color movie, a short TV film and many still shots were made of the progress of the work. The news and picture material were used by local newspapers and radio and TV stations in the days following the landscape work.

The color movie, with sound track, will be available for showing by gar-

SPRING SPECIALS

Available for immediate shipment.

Apple

2-yr., 9/16-in. cal., 50c
Delicious, double red
Lodi

2-yr., 11/16-in. cal., 65c
Rome, double red
Stayman, double red

Cherry

Early Richmond Pie Cherry, 11/16-in. cal., 88.50 per 10;
\$75.00 per 100.

SHRUBS

	Each	Each
	100 to 250	250 and up
Barberry, thunbergi		
15 to 18 ins.	\$.25	\$.20
18 to 24 ins.	.35	.30
Rush Honeysuckle, morrowi		
2 to 3 ft.	.30	.25
3 to 4 ft.	.45	.40
4 to 5 ft.	.70	.65
Deutzia crenata		
2 to 3 ft.	.30	.25
3 to 4 ft.	.45	.40
4 to 5 ft.	.70	.65
Deutzia Pride of Rochester		
3 to 4 ft.	.45	.40
4 to 6 ft.	.70	.65
6 to 8 ft.	.85	.80
Dogwood, red and golden stem		
4 to 5 ft.	.70	.65
Forsythia—spectabilis, suspensa and viridissima		
3 to 4 ft.	.45	.40
4 to 5 ft.	.70	.65
5 to 6 ft.	.75	.70
Forsythia Lynwood Gold		
18 to 24 ins.	.45	.40
2 to 3 ft.	.60	.50
Forsythia Spring Glory		
3 to 4 ft.	.55	.45
4 to 5 ft.	.75	.65
Hydrangea Nikko Blue		
2-yr.	.75	.65
Hydrangea P. G.		
2 to 3 ft.	.55	.45
3 to 4 ft.	.75	.65
Philadelphus coronarius		
4 to 5 ft.	.70	.65
Pussy Willow		
2 to 3 ft.	.45	.40
3 to 4 ft.	.70	.65
Regel Privet		
2 to 3 ft.	.50	.45
Rosemary Willow		
4 to 6 ft.	.70	.65
6 to 8 ft.	.85	.80
Snowberry		
2 to 3 ft.	.30	.25
3 to 4 ft.	.45	.40
Spiraea Reeves		
3 to 4 ft.	.55	.45
Spiraea vanhouttei		
3 to 4 ft.	.45	.40
Tamarix africana		
4 to 5 ft.	.75	.65

Peach

6 to 7 ft., 7/8-in. cal. 60c
5 to 6 ft., 11/16-in. cal. 55c
2 to 3 ft., 5/16-in. cal. 30c

Ambergem
Belle of Georgia
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Elberta
Golden Jubilee
Halehaven

J. H. Hale
Shipper's Red
Sullivan's Early Elberta

Plum

4 to 6 ft., \$9.00 per 10; \$80.00 per 100; 3 to 4 ft., \$7.00 per 10;
\$60.00 per 100.

Burbank Mammoth Golden Red June
NOTE: Submit your want list for quotations on other fruits.

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Special quantity prices.
30 or more of a variety.

Coniferous

	Each
Mr.—Balsam and Douglas	
2 1/2 to 3 ft., B&B	\$3.00
3 to 4 ft., B&B	3.75
4 to 5 ft., B&B	4.50
Juniper—Andorra and hetzi glauca	
2 to 2 1/2 ft., B&B	3.00
2 1/2 to 3 ft., B&B	3.75
Juniper, Pfitzer	
15 to 18 ins., B&B	1.50
18 to 24 ins., B&B	2.25
2 to 2 1/2 ft., B&B	2.75
Pine—White and Scotch	
3 to 3 ft., B&B	2.50
3 to 4 ft., B&B	3.25
4 to 5 ft., B&B	4.50
Pine, Austrian	
2 to 3 ft., B&B	3.25
3 to 4 ft., B&B	4.00
4 to 5 ft., B&B	5.50
Spruce, Norway	
18 to 24 ins., B&B	1.50
2 to 2 1/2 ft., B&B	2.00
2 1/2 to 3 ft., B&B	2.75
Spruce—Canadian and Black Hills	
18 to 24 ins., B&B	2.00
2 to 2 1/2 ft., B&B	2.50

Broad-leaved

Azalea—Corsage and ledifolia alba	
10 to 12 ins., B&B	1.00
12 to 15 ins., B&B	1.35
Barberry, Julianae	
18 to 24 ins., B&B	2.40
2 to 2 1/2 ft., B&B	2.85
Euonymus patens	
15 to 18 ins., B&B	1.10
18 to 24 ins., B&B	1.50
2 to 2 1/2 ft., B&B	2.00

HEDGE

Ligustrum sinensis (Chinese Hardy)	
Evergreen Privet	
Ligustrum ovalifolium (California Privet)	
Per 100 Per 1000	
1 1/2 to 2 ft., 3 canes	\$11.00 \$100.00
2 to 3 ft., 4 canes	15.00 135.00
3 to 4 ft., 5 canes	22.50 200.00

SHADE AND FLOWERING TREES

	Each	Each
	100 to 250	250 and up
Dogwood, pink		
18 to 24 ins., N.R.	\$1.50	\$1.25
2 to 3 ft., B&B	2.75	2.50
3 to 4 ft., B&B	4.00	3.75
4 to 5 ft., B&B	5.50	4.85
Flowering Peach, pink and red		
5 to 7 ft.	1.25	1.00
Birch, Cut-leaved Weeping		
4 to 5 ft.	1.85	1.75
5 to 6 ft.	2.10	1.75
Birch, European White		
6 to 8 ft.	2.40	1.75
Elm, Chinese		
6 to 8 ft.	1.35	1.20
8 to 10 ft.	2.00	1.75
Maple, Norway		
6 to 8 ft.	3.10	2.90
8 to 10 ft.	3.75	3.50
Maple, Schwedler		
8 to 10 ft.	4.00	3.50
Maple, Silver		
6 to 8 ft.	1.75	1.50
8 to 10 ft.	2.35	1.50
1 1/2 to 2-in. cal.	4.25	3.00
Salix—babylonica and niobe		
6 to 8 ft.	1.50	1.35
8 to 10 ft.	2.00	1.75

TREES—Lining-Out Sizes

	Per 100	Per 1000
Chinese Elm		
2-yr., 4 to 6 ft.	\$ 15.00	\$135.00
Chinese Chestnut		
12 to 15 ins., S.	12.00	110.00
15 to 18 ins., S.	18.50	160.00
Maple, Norway		
5 to 6 ft., whips	110.00	1100.00
6 to 7 ft., whips	135.00	1350.00
Maple, Silver		
2-yr., 3 to 4 ft.	10.00	90.00
2-yr., 4 to 6 ft.	15.00	135.00

TREE ROSES

No. 1, 3 to 4-ft. stems. In lots of 10 or more, \$2.85 each; individually root-wrapped, \$3.00 each. Following varieties: McGredy's Scarlet, Red Tullman, Du Pont, Tullman, Charles Bell, Florida.

WAYNESBORO, VIRGINIA
Phone: 2-8247

WAYNESBORO NURSERIES

den clubs and other interested groups. A film and sound track for TV use on public service programs will be distributed throughout the United States.

The Florida Nursery & Landscape Co. believes that, while more time will be necessary to know the extent of the effectiveness of the project, the sizable crowd attracted to the scene and the continuing interest apparent in visitors to the landscaped home argue that many have been impressed by the difference landscaping can make. Contractors and builders may now be encouraged to include more for landscaping in their budgets, and some in the area contemplate giving a landscape plan for each home to purchasers, so that new homeowners will be able to work toward a planned goal.

GARNETT GREENHOUSE, Garnett, Kan., is adding a lath house, 30 x 75 feet, to its premises for the display and sale of can-grown nursery stock.



Commercial Nursery Co.
ESTABLISHED 1900
Decherd, Tennessee

CHINESE CHESTNUTS			
Seedling-grown			
Seedlings	Per 100	Per 1000	
18 to 24 ins.	\$ 25.00	\$ 200.00	
2 to 3 ft.	30.00	275.00	
3 to 4 ft.	40.00	350.00	
Transplants			
2 to 3 ft.	45.00	400.00	
3 to 4 ft.	55.00	500.00	
4 to 5 ft.	70.00	650.00	
5 to 6 ft.	90.00	800.00	
6 to 8 ft.	125.00	1000.00	
FAIRVIEW EVERGREEN NURSERIES			
FAIRVIEW, Erie Co., PA.			

SMALL FRUIT PLANTS

Grapes

Currants

Berry Plants

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69 Orchard St. FREDONIA, N. Y.

BESTURF BRAND

MEYER Z-52 ZOYSIA
Round Grass Plugs
"The World's Finest Lawn Grass"

grown and sold by
PLEASANT VIEW NURSERIES
(Not Licensed)
Peters Road, Troy, Ohio, Phone 27094

NURSERY stock was on special sale at Orton Plantation Nursery, Wilmington, N. C., during the 4-day opening of a new Wilmington shopping center in February. The nursery planted the plaza strip in front of the center with shrubs.



CALIFORNIA ASSOCIATION OF NURSERYMEN

ELMER J. MERZ, Executive Secretary
304 MITAU BUILDING SACRAMENTO 14, CALIF.

SAN JOAQUIN CHAPTER

The February meeting of the San Joaquin chapter of the California Association of Nurserymen was held at Madera, Calif., at Riggs Nursery. Members and guests viewed one of California's most modern and functional nurseries and heard Howard Riggs give a synopsis of the progress and planning that resulted in his building a new nursery.

Members heard Mr. LaValley describe the operation of the Fresno State College's ornamental horticulture department and its sale of nursery stock. Syd Whitehorn spoke in opposition to the sale of this stock.

Willis Stribling described proceedings at the northern California nurserymen's institute. Mr. LaValley reported on the turf conference held at Davis.

Members were urged to attend the March meeting to be held at the Hacienda motel, in Fresno, March 21, in conjunction with the midyear directors' meeting.

M. E. Gardner, Sec'y.

REDWOOD EMPIRE CHAPTER

March 13, the members of the Redwood Empire chapter of the California Association of Nurserymen held their regular business meeting. The group met at Hamies Chuck Wagon, San Rafael.

Mrs. Harold Prickett, Santa Rosa, social chairman, introduced the following guests: Mr. and Mrs. Leggett, Santa Rosa; Mrs. Eric Lund, Lund's Flowerland Nursery, Napa, and Mr. Nelson, new area fieldman for California Spray Chemical Corp. Mrs. Prickett also announced that Jack Edminster, California Spray Chemical Corp., had been promoted to district manager and will be located at Salt Lake City, Utah.

President Peter Peterson, Kenwood, called on Walter Leiser, Petaluma, Arbor day committee chairman, who reported that the president and chairman participated in a tree-planting ceremony at one of Petaluma schools. Trees were also donated to several other schools for planting ceremonies.

The chapter directors announced the acceptance of two new memberships: The Green Tree Nursery, El

Verano, operated by Richard Terril, and the Skylark Nursery, Santa Rosa, operated by Kenton N. Smith.

Donald Perry, San Anselmo, president of the C. A. N., told of the coming midyear meeting of the directors. He also said that the courts had given a favorable judgment on taxation of growing nursery stock. One of the cases is still pending in the courts.

A motion was made and passed to request the directors to ask for a review of the injurious herbicide act.

Harold Holms, Volkman Seed Co., asked the chapter to support a proposed change of the germination

test period of seeds. This change would extend the period from 12 and 15 months to 18 months. A motion was made and passed to instruct the state director to support this change.

Mr. and Mrs. Leggett showed pictures of a trip to Singapore, Java, Ceylon and India.

Hugh Wallace, Sec'y.

SOIL-INFESTING PESTS

Talk Before California Arborists

The California Arborists' Association met at the office of the agricultural commissioner at Redwood City, Calif., March 21, to hear an interesting talk by Dr. L. C. Glover, of the Shell Chemical Corp. He told about soil-infesting pests and gave some general information on the control of these pests.

In his talk Dr. Glover divided the soil-infesting pests into three general classes. These are, first, those which



Lantana Goldrush

Plant Pat. No. 1211

Gives masses of golden-yellow summer color.

Pot-grown, lining-out stock

2 1/4-in. pots **\$30.00** per 100

3-in. pots **\$45.00** per 100

Order now for immediate delivery.

Our monthly catalog now lists all varieties available. Write for your free copy!



MONROVIA NURSERY CO.

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ROSES

Top-quality, northern California, field-grown, patented and standard bush and tree roses. Write for list and prices.

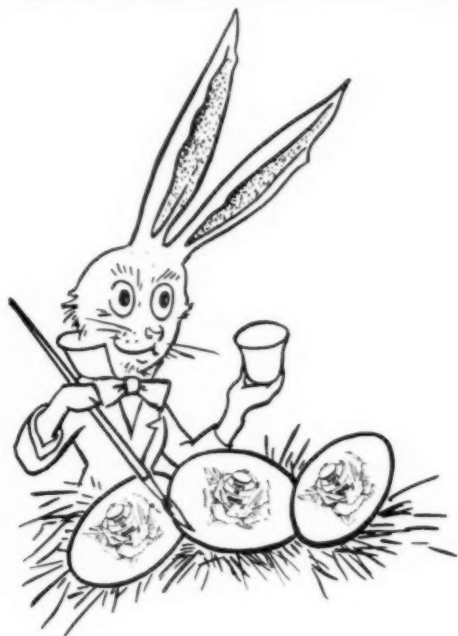
ELMER ROSES

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SAN GABRIEL, CALIF.

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H & S Personality Roses
Bred for American Gardens

HOWARD & SMITH, INC.
Montebello, Calif.



HELD OVER — TO PAINT YOU A ROSE-Y PICTURE

1956-57 Wholesale List

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WEEKS WHOLESALE ROSE GROWER

O. L. WEEKS

926 W. ELY

ONTARIO, CALIF.

attack the plants at or above the surface of the soil, but which spend part of their life under the ground: second, those pests which attack both the aboveground and the below-ground parts of the plants and, third, those pests which spend their entire life underground and which attack the underground parts of the hosts on which they feed.

Included in the first group were such pests as sow bugs, pill bugs (pill bugs, he said, are not the same as sow bugs, though they do resemble each other in some respects), snails, slugs and other pests. Among the second group were such pests as ants, several kinds of grubs, cutworms, baccharinus, woolly aphids, flea beetles, cucumber beetles, weevils and some of the thrips. In the third group were included root maggots, wireworms, false wireworms, earthworms, moles, gophers, springtails, millepedes, bulb flies, ground mealy bugs, termites, nematodes and similar pests.

When asked about earthworms, Dr. Glover agreed that by most agriculturists earthworms are considered beneficial, though he did admit that on lawns and golf greens they may do more harm than good.

After grouping the pests and telling something about the life histories and feeding habits of several of them,

EVERGREEN SPECIALS

ARBORVITAE

YEW

Pyramidal

18 to 24 ins.	\$0.75
24 to 30 ins.	1.00
30 to 36 ins.	1.25

Woodward

9 to 12 ins. ....	.50
12 to 15 ins. ....	.75
15 to 18 ins.	1.00

Irish

18 to 24 ins.	\$1.50
24 to 30 ins.	2.00

Hatfield

JUNIPER

15 to 18 ins.	1.25
18 to 24 ins.	1.50

We can pack this stock bare-root in sphagnum moss at 25c each. Full line of other finished and lining-out stock. Write for special price list.

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735 N. E. 87th Ave.

PORTLAND 16, ORE.

DID YOU KNOW?

That the smallest plants are less than .00003 inch in diameter, fairly well distributed over the face of the world, but apparently not found in the Antarctic.



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Evergreens - PROPAGATORS AND GROWERS
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CUTTING-GROWN RHODODENDRON LINERS

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Quality only

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PORTLAND WHOLESALE NURSERY CO.

5050 S. E. STARK ST.

Avery H. Steinmetz
Paul E. Van Allen

PORTLAND 15, OREGON

We suggest phoning or wiring orders for immediate shipment. Our season is late and deciduous stock is more dormant than usual. Conifers available and in good condition.

New catalog just off the press.

Distributors for Goodrich Budding Strips, Ra-Pid-Gro fertilizer, Rite-in-the-Rain labels and Wilt-Pruf.

Quality Stock

CONIFERS AND BROAD-LEAVED
EVERGREENS
SHADE AND FLOWERING TREES
FRUIT TREE SEEDLINGS
FRUIT TREES
DECIDUOUS SHRUBS
VINES AND BULBS
PORTLAND ROSES
NURSERY SUPPLIES

Write for our Catalog

Dwarf Apple
Small Fruits
Seedlings
Green Ash
Cut-leaved Birch
European White Birch
Box Elder, silver variety
Catalpa speciosa
Bechtel Flowering Crab
Chinese Elm
Camperdown Elm
Paul's Scarlet Thorn
Honey Locust
Globe Locust
Idaho Pink Locust
Japanese Lace-leaved Maple
Palmatum Rubrum Maple
Faassen's Black Maple
Norway Maple
Red Maple (rubrum)
Schwedler Maple
Silver Maple
Red and Scarlet Oak

Plane Tree, European
Redbud (canadensis)
Sweet Gum, B. R. and
B&B
Tulip Tree
Willow
Azalea mollis
Azalea Altaclarensis
California Privet
English Privet
Lodense Privet
Arborevitae, 12 varieties
Juniper, 22 varieties
Spruce, Dwarf Alberta
Spruce, Colorado Blue and Green
Spruce, Norway

Taxus cuspidata (Japanese)
Taxus capitata (Japanese)
Taxus brevifolia
Taxus brownii
Taxus hatfieldi
Taxus hickii
Taxus, Irish Green and golden
Taxus, English, upright
Boxwood
Heather
Nandina domestica
Clematis, 22 varieties
Wistaria, 7 varieties
Peonies

EXCELLENT VALUES

Birch, Cut-leaved Weeping, 8 ft. and up
Birch, European White, all grades
Maple, Norway, 2-yr., 8 to 10 ft., br.
Maple, Norway, 2-yr., 6 to 8 ft., br.

SOME OF THE FINEST MAPLES EVER

Price Each
50 or More

Norway Maple
8 to 10 ft., branched \$2.00
6 to 8 ft., branched 1.65
Red Maple (Acer rubrum)
5 to 6 ft., branched 1.35
4 to 5 ft., branched 1.10
3 to 4 ft., branched85
Schwedler Maple
8 to 10 ft., branched 2.50
6 to 8 ft., branched 2.10
5 to 6 ft., branched 1.65
Silver Maple
8 to 10 ft., branched 1.25
6 to 8 ft., branched 1.00
5 to 6 ft., branched85
Ready for immediate shipment, L.C.L. or combination carlots.
52-page wholesale catalog on request.

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Rt. 1, HILLSBORO, ORE.

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FLOWERING ORNAMENTAL TREES
SHADE TREES

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OREGON-GROWN ROSES

PETERSON & DERING
SCAPPOOSE, ORE.

Dr. Glover gave some general information on the controls. He indicated that, even though most of these pests until recently were hard or impossible to control, they now, with the use of such products as DDT, BHC, aldrin, dieldrin and heptachlor, as well as DD and perhaps some other fumigants, are to a great extent on the run. He felt homeowners and large-scale operators who are making permanent plantings of lawns, shrubs and trees, either as ornamentals or for commercial purposes, could in the long run make great financial savings and have better results if they would treat all soils during the preplanting preparations. He said that such materials as DDT, which do much to control nearly all of the pests about which he was speaking, are effective in the soil for about 10 years. Thus, even if there are no pest infestations at the time of the planting, the materials will be present and effective for later infestations, which are almost bound to appear.

Toward the end of his talk Dr. Glover gave some information on fertilizer-pesticide combinations. In their favor he said that they not only give the protection and feeding as he had earlier recommended, but that the dual application is a laborsaving device of great value. At present, Dr. Glover said, the pesticides are to be had rarely in the dry fertilizers, but that some research is being conducted to add them to liquid fertilizers.

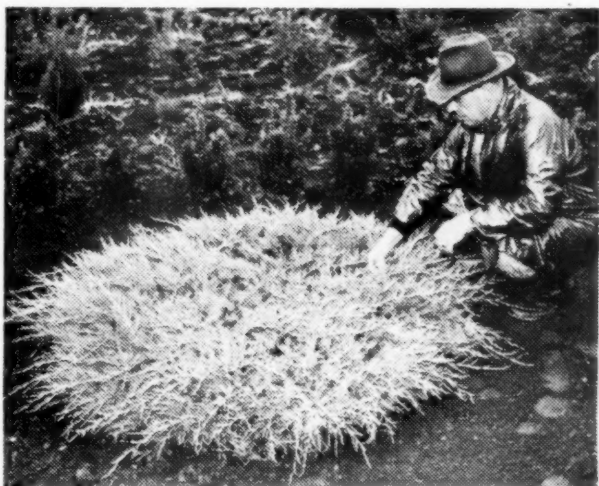
The next meeting will be held at the usual place April 18. W. B. B.

WASHINGTON NOTES

Newly elected officers of the Associated Landscape Designers and Contractors of Seattle were installed during the annual banquet meeting of the group at the Edmond Meany hotel, Seattle, Wash., February 29. Officers are the re-elected president, Tak Kubota; vice-president, Walter Shepherd; secretary, Fred Nylin, and treasurer, Jerry Wright. The sculptor, Everett DuPen, addressed the group on the use and value of sculpture in landscape design.

Northwest Washington nurserymen met March 5 at the Dales restaurant, near Mount Vernon. After dinner, local problems affecting the industry were discussed, including the price of roses, which some stores have been selling three for 99 cents.

Washington Association of Ground Sprayers, Inc., sponsored a 2-day school course with cosponsors State College of Washington, Pullman, and the University of Washington, March 30 and 31, at the university



SIX-YEAR-OLD PLANT

Plants from 1-gal. containers	Each
10 to 12 ins.	\$1.50
12 to 15 ins.	1.75

White's Silver King Juniper

(Plant Patent No. 1,186)

The White's Silver King Juniper is a new dwarf evergreen that attains a height of 10 inches. It has a beautiful silver-blue color, retaining a good color both summer and winter.

With trailing, spreading branches well filled with foliage it will, with a little shearing, form a dense mass.

The hardiness of the White's Silver King Juniper was proved during the disastrous freeze of last November. Of the five spreading junipers I raise, the Silver King was the only one that did not freeze and show signs of damage.

Plants from 3-in. pots.....	Each*
	\$0.95
	Each
15 to 18 ins., B&B	\$2.50
18 to 24 ins., B&B	3.00
24 to 30 ins., B&B	3.50



CARL WHITE'S NURSERY

716 S. Ninth Ave.
WALLA WALLA, WASH.

in Seattle. Insects which affect ornamentals, diseases and control methods were discussed.

George W. Eade, chief nursery inspector, state of Washington, has reported that inspectors in his department have condemned many packaged roses this season for being incorrectly marked as to grade. Dealers are given a choice of returning the roses to place of origin or blocking out the grade and selling them as ungraded roses. Packaged roses which sprouted and died back also were condemned.

Arthur B. Langlie, governor of the state of Washington, issued a proclamation setting April 11 as Arbor day in the state and urging that special attention be given on this day to the beautifying of grounds and premises and the setting out of trees and shrubs.

Although Marysville strawberry growers suffered an almost 90 per cent loss of their plants in the November freeze, the growers of the area are going ahead with plans for their 21st annual strawberry festival. This is the second year in succession that berries have been in short supply. Because spring was late last year, growers and loyal Marysville citizens dug into freezers for 3,200 pounds of strawberries for the 20th

LINERS

Per 100

<i>Juniperus chinensis pfitzeriana</i>	
3 to 6 ins., T.	\$10.00
<i>Picea excelsa nidiformis</i> ,	
2 to 3 ins., T.	12.00
3 to 5 ins., T.	18.00
<i>Thuja occidentalis pyramidalis</i>	
3 to 5 ins., T.	10.00
6 to 9 ins., T.	14.00
<i>Thuja occidentalis rosenthalii</i>	
3 to 6 ins., T.	12.00
<i>Thuja occidentalis umbraculifera</i>	
4 to 6 ins., T.	12.00

Write for liner catalog.

MITSCH NURSERY
AURORA, ORE.

annual festival. There is no such reserve for the 21st. This year sponsors will dig into pocketbooks and buy southern strawberries for the event.
M. B. S.

OREGON GROUP'S PLANS

The board of directors of the Oregon Association of Nurserymen met at the Portland Wholesale Nursery Co. the evening of March 14. Present were Melvin Surface, president; Paul Van Allen, Portland Wholesale Nursery, first vice-president; Joe Klupenger, Klupenger Nursery, Portland, second vice-president; Lynn Brooks and Wayne Melott, Carlton Nursery Co., Forest Grove; James A. Doty, Doty & Doerner, Inc., Portland; W. P. (Pete) Nuffer,

PACIFIC COAST NURSERY

Rt. 1, Box 114B PORTLAND 9, ORE.

Pioneering Seedling Growers on
the Pacific Coast Since 1914.

Specializing in Fruit Tree Seedlings and
Shade and Flowering Trees.
French Apple Seedlings, Str. and Br.
Domestic Apple Seedlings, Str. and Br.
Bartlett Pear Seedlings, Str. and Br.
Ussuriensis Pear Seedlings
Mahaleb Cherry Seedlings
Mazzard Cherry Seedlings
Myrobalan Plum Seedlings
American Plum Seedlings
Angers Rooted Quince Cuttings
English Privet Cuttings

John Holmason & Sons, Props.

ROSES — Field Grown

Patented and Nonpatented.
Finest in roses since 1925.
Write for new list and prices. Contracts
and advance orders solicited.

PACIFIC NORTHWEST ROSE NURSERY
P. O. Box 261 GRESHAM, ORE.

Mountain View Nurseries, Inc., Troutdale, and Reed Vollstedt, Reed's Garden Center, Eugene. Also present were Robert Snodgrass, Esch Nursery, Portland, cochairman of the flower show committee, and Charles H. Potter, Milwaukie, executive secretary.

The board of directors approved the following for membership in

SEMI-DWARF APPLE TREES

On E. M. VII, II and IV

In following varieties:

McIntosh, Delicious, Northern Spy, Close, Lodi, Early McIntosh, Gravenstein, Joyce, Baxter, Greening, Cortland, Sandow, Stark, Red Rome

DWARFS

On E. M. IX

Melba, Delicious, Spy, Cortland, McIntosh, Sandow.

	PRICES	Each	Each
		Each	25 250
		5 and up	and up
Whips, 3 1/2 to 5 ft.	\$1.10	\$1.00	\$0.90
No. 1, 3 1/2 to 5 ft.	1.60	1.50	1.40

DWARF PEARS

On Q. A.

Bartlett, Clapp Favorite
No. 1, 3 1/2 to 5 ft. 1.60 1.50 1.40

SWEET CHERRIES

Windsor, Seneca, Early Rivers, Black Tartarian, Schmidt
11/16-in. cal.,
4 to 6 ft. 1.20 1.10 1.00

PLUMS

Lombard, Burbank, Early Golden, Italian, Stanley ... 1.10 1.00 .90
Prices are F.O.B. Bowmanville. Packing at cost, guaranteed true-to-name. Inspected by the Department of Agriculture.

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Rhododendrons

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Deciduous Shrubs

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Perennials

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Growers of choice Nursery Stock.
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Maurice C. Ravensberg

Boskoop, Holland

Reliable exporters for general nursery stock since 1922.

Catalog on application

the O. A. N.: Arnold Nursery, Milwaukee; Lakeshore Gardens Nursery, Klamath Falls; Lehman Nursery, Portland; Plat I Nursery, Sutherlin; Sharp's Nursery, Portland; Shrubbery Plantings, Portland; Harold Tooze, Portland, and Willis Nursery, Portland, and Aluminum Packages, Inc., Whittier, Calif., and Dick Oosterwyck Nursery Wholesale House, Marysville, Wash., associate members.

Plans concerning attendance at the American Association of Nurserymen convention were discussed, as well as the O. A. N. fall convention to be held at Gearhart, Ore., in September. Plans are under way for an association publication.

Wayne Melott, chairman of the retail nursery committee of the O. A. N., called a committee meeting March 21. Principal business discussed was radio and television advertising for the coming year.

C. H. P.

CALIFORNIA NOTES

Mr. and Mrs. M. Marengo have opened the Marengo Nursery, 145 San Antonio road, Palo Alto. It is located directly across the street from one of the new shopping centers and is on a heavily traveled road. The store area is a modern redwood and glass building, covering about 1,000 square feet. A grand opening was held March 24 and 25, when a large crowd attended the well-advertised program.

The Cupertino Nursery, operated by Shigeko Uenaka at 10431 North Sunnyvale-Saratoga road, Cupertino, held its second annual open house March 17 and 18. Each lady attending was given a plant.

Darrell May, Oakland landscape architect, spoke on "The Use of Rhododendrons in Landscaping" at the March 15 meeting of the California chapter of the American Rhododendron Society.

William M. Wilson, manager of the San Mateo county floral fiesta, was a judge at the international flower show held at Los Angeles, March 17 to 28. The 1956 dates of the fiesta have been announced as August 3 to 11.

Dr. L. C. Glover spoke at the March 21 meeting of the California Arborists' Association on "Soil Insects."

R. H. Sciaroni, San Mateo county farm adviser, and William Enomoto, Redwood City rose grower, discussed rose growing at the March meeting of the Peninsula Rose Society.

Herbert Frank, Menlo Park land-

MILTON NURSERY CO.

79th Year

MILTON-FREEWATER, ORE.

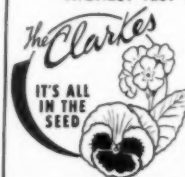
Flowering, Ornamental, Shade Trees, Evergreens and Shrubs

Fruit Tree Seedlings and Angers Quince Rooted Cuttings

CLARKE'S PANSY SEED

Produces superior plants in separate colors and in mixture for your discriminating customers.

HIGHEST TEST GERMINATION



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EVERGREEN LINERS

Rhododendrons Camellias
Azaleas Andromeda Conifers

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Rt. 2, Box 683 TROUTDALE, ORE.

Finest Quality

**CAMELLIAS—ROSES
RETICULATAS—HOLLY**
(Northern California Grown Roses)

DESCANSO DISTRIBUTORS, INC.

Wholesale Growers
Pipeline & Walnut Sts., CHINO, CALIF.

ORNAMENTAL WOODY PLANTS AND ROSES

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PORTLAND 19, OREGON

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Regular transplanted. Rare stock. Free of noxious weeds. In the business to stay.

F. A. DOERFLER & SONS

250 N. Lancaster Dr. SALEM, ORE.
Phone 22549

HEEMSKERK & CO., Bulbs

WHOLESALE

**AMERICAN and HOLLAND
GROWN BULBS**

229 Oak St.

RIDGEWOOD, N. J.

scape architect, spoke on "Proper Use of Color Arrangements in the Garden" at the March 5 meeting of the Stanford Women's Faculty Club.

California nurserymen are taking up an old custom that had fallen by the wayside in recent years. It is the planting of a tree at the birth of each child in a family. Those who have had a hand in promoting the idea say that it is taking hold well. An additional step in the plan is to plant a tree also for each grandchild.

A new leaflet entitled, "General Contact Weed Killers," by Alden S. Crafts, University of California, Davis, may now be obtained either from one's county farm adviser or from the agricultural extension service, University of California, Berkeley.

Programs on the Green Thumb TV program over station KRON-TV during March included "Portable Gardens," by William E. Schmidt, Schmidt Nursery, Palo Alto; "Shade Trees for Arbor Day Planting," by Maunsell Van Rensselaer, director of the Saratoga Horticultural Foundation, Saratoga, and president of the American Association of Botanical Gardens and Arboreta, and "Citrus for Bay Area Home Gardens," by Floyd Dillon, Four Winds Growers, Mission San Jose.

W. B. B.

OREGON NOTES

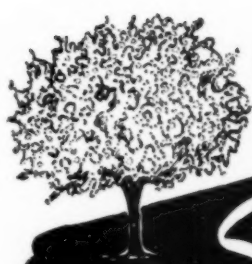
Mrs. Martha Ruff, who has operated a nursery in Portland for a number of years, is in the Portland sanatorium as the result of a fall in which she received broken ribs and other severe injuries.

Reed's Garden Center, Eugene, has purchased a Chevrolet pickup truck. The firm held a successful spring open house March 17 to 25.

Valley View Nursery, Portland, has a new store address at 6590 Southwest Scholls Ferry road.

Melvin Surface, Surface Nursery, Gresham, president of the Oregon Association of Nurserymen, appeared on the Dean Collins television program over KPOJ-TV, March 17. Mr. Surface discussed the nursery stock situation for this spring, with reference to availability, etc., after the big freeze of last November.

Wil-Chris Acres, Sherwood, have built a greenhouse 28x103 feet in which the firm will grow liners and rooted cuttings and expand the business of potted clematis. William Curtis, of the firm, is now on United States Naval Reserve training duty at Kodiak, Alaska. C. H. P.



SELL MORE
FLOWERING TREES
IN '56

WITH

Stribling's
GROWING  QUALITY

FLOWERING PLUM

Reddish - Bronze Foliage

Prunus pissardi

(white tinted pink)

Prunus Hollywood

(light pink flower, good fruit)

Prunus bleriana

(double soft pink)

Prunus Thundercloud

(dark foliage, white flower)

Ask about these 2 outstanding
Stribling Introductions - - -

S-37 ROOTSTOCK

A must where soil nematodes hamper
fruit production. (Plant Pat. 904)

GOLD DUST PEACH

A new, early, yellow-fleshed Free
stone . . . ripens 40 days ahead of
Elberta. (Plant Pat. 1144)

Write For Wholesale Price List Today.

FLOWERING PEACH

Double Early Red

Double Early Pink

Double Late Red

Helen Borchers

(very double pink)

Candy Stick

(variegated)

Double White



and a Complete Line of
FRUIT TREES
•
SHADE TREES
•
GRAPE VINES

Plus a wide variety of field
and container grown Orna-
mentals.



Stribling's
NURSERIES

P. O. Box 793

Merced, California

Ph. Randolph 2-4106

(Office and Sales Yard on 99 Highway North)

The Homestead Nurseries

H. G. Benckhuysen. Boskoop. Holland

Azaleas, Rhododendrons, Magnolias, Peonies, Orna-
mental Trees and Shrubs, Perennials — Quality Stock
in All Leading Varieties. Trade catalog on request.

Look for Steele's® NEW ORIGINATORS'® PACK



Steele's 1956 Mastodon
Seed will be sold only in
the Originators' Pack.
Any seed not in the Ori-
ginators' Pack is not genu-
ine Steele's.

STEELE'S PANSY GARDENS

P. O. Box 4555

2715 S. E. 39th Ave., Portland 2, Oregon

FOR THE BEST IN CACTUS AND SUCCULENTS

WONDER COLLECTION: One
hundred, all different.

\$5.00 per 100, \$45.00 per 1000.

CANADIAN SPECIAL: More
durable kinds, 20 varieties.

\$5.00 per 100, \$45.00 per 1000.

SUPER SELECTION: Largest
from the shipping flats.

\$10.00 per 100, \$90.00 per 1000.

HUMMEL'S EXOTIC GARDENS

Rt. 1, Box 900

CARLSBAD, CALIF.

CLASSIFIED ADS

Rate: 35 cents per line, each insertion.

Minimum order, \$3.50

Instructions for the next issue must be received by Friday, April 13.

Forms for May 15 issue will close Friday, April 27.

AZALEAS

AZALEAS, TRANSPLANTS

Open bed-grown, full sun,
in peat moss, M-C-2 treated.

KURUMES		100	1000
4 to 6 ins.		\$10.00	\$90.00
Bridesmaid	Hino-Crimson		
Coral Bells	Peachblow		
Double Mauve	Salmon Beauty		
Hexe	Salmon Queen		
Hexe de Saffelare	Snow		
Hinodegiri	Snow 125		

HARDY JAPANESE

		100	1000
4 to 6 ins.		\$10.00	\$90.00
Amoena	Macrantha, double		
Flame	Macrantha, orange-red		
Hardy Firefly	Macrantha, pink		
Judd	Sherwood		
Kaempferi	Hardy Firefly		
Lilacina			

PERICATS

		100	1000
4 to 6 ins.		\$10.00	\$90.00
Gardenia Supreme	Sweetheart Supreme		
Mme. Pericat	Twenty Grand		
Pink Pericat			

SOUTHERN INDICAS

		100	1000
6 to 8 ins.		\$10.00	\$90.00
Brilliant	Judge Solomon		
Coccinea Major	Mme. Dominique		
Elegans	President Clay		
Fielder's White	Pride of Dorking		
Formosa	Pride of Mobile		
George Taber	Prince of Orange		
Glory of Sunnyhill	Salmon		
Indica Alba	V. C. Rubra		
Iveryana	Vittata Fortunei		

RED WING (patented) \$27.50 Per 100 Per 1000

5 per cent discount for cash.

SEMMES NURSERIES, INC.
Semmes, Ala.
Phone: Mobile, Ala., GA 6-1700.

AZALEAS

Hinodegiri, 6 to 8 ins. to		
15 to 18 ins.	\$0.60 to 1.75	
Rosebud, 6 to 8 ins. to		
12 to 15 ins.	.60 to 1.35	
Herbert, 6 to 8 ins. to		
12 to 15 ins.	.75 to 1.50	
Palestina, 6 to 8 ins. to		
12 to 15 ins.	.60 to 1.25	
Pink Profusion, 6 to 8 ins. to		
12 to 15 ins.	.60 to 1.25	
Good Times, 6 to 8 ins. to		
12 to 15 ins.	.60 to 1.25	
Ethelwyn, 6 to 8 ins. to		
12 to 15 ins.	.60 to 1.25	
Poukhanensis, 8 to 10 ins. to		
15 to 18 ins.	.75 to 1.50	
Othello, 10 to 12 ins. to		
2 to 2 1/2 ft.	.75 to 2.00	
Pink Pearl, 6 to 8 ins. to		
2 to 2 1/2 ft.	.60 to 2.25	
Fedora, 10 to 12 ins. to		
15 to 18 ins.	.60 to 1.25	
Sukata, red, 6 to 8 ins. to		
12 to 15 ins.	.60 to 1.25	
Atlanta, 10 to 12 ins. to		
12 to 15 ins.	1.00 to 1.25	
Louise Gable, 6 to 8 ins. to		
10 to 12 ins.	.70 to 1.00	

All plants protected during winter. Well filled with live buds. Delivery at nursery only.

WINDY ACRES NURSERY
Pitman, N. J.
Located 500 yards from Rt. 47,
on Chapel Heights road.

AZALEAS FOR GROWING ON

Ready from now on.
Take advantage of fast southern growing
and northern finish. Grown in heavy peat.
Well finished.

KURUMES		Per 100	Per 1000
Bridesmaid	Hinodegiri		
Christmas Cheer	Hino-Crimson		
Coral Bells	Pink Pearl		
Double Mauve	Salmon Beauty		
Hexe	Salmon Queen		
Hexe de Saffelare	Snow		

PERICATS		Per 100	Per 1000
Mme. Pericat	Sweetheart Supreme		
Pink Pericat			

3 to 5-in. head		\$30.00	\$250.00
4 to 6-in. head		45.00	400.00
6 to 8-in. head		65.00	600.00

RED WING (patented)		100	1000
3 to 5-in. head		\$50.00	\$450.00
4 to 6-in. head		65.00	600.00

5 per cent discount for cash.

SEMMES NURSERIES, INC.

Phone: Mobile, Ala., GA 6-1700.

AZALEA LINERS

Peat-grown in cold frames for April and
May delivery. Minimum 25 per variety.

GLENDAL HYBRIDS, \$12.50 per 100.

Content (pale purple)	
Coquette (HH begonia-pink)	
Corsair (rose-pink)	
Corydon (dwarf pink)	
Festive (white striped rose)	
Glacier (white)	
Illusion (deep pink)	
Prudence (dark rose)	
MACRANTHAS, \$10.00 per 100.	
Benikerin (double red)	
Macrantha (single pink)	
Macrantha, double	
Wakaebisu (HH salmon-pink)	

NEW KURUMES, \$12.50 per 100.

Fuji-no-asahi (HH light salmon)

Himekagami (HH white and faint salmon)

Kamakura (carmine-rose)

Kintaiyo (white, edged orange)

Kumoi (HH light crimson-carmine)

Twilight (white, flushed pink)

Hino-Supreme (dark crimson)

KURUMES, \$10.00 per 100.

Bridesmaid, Christmas Cheer, Coral Bells,

Hexe, Hinoegiri, Mauve Beauty, Pink Pearl,

Salmon Beauty.

INDICAS, \$10.00 per 100.

Daphne Salmon, Formosa, George Taber,

Gulf Pride, Judge Solomon, Perfection, Pres.

Clay, Pride of Mobile.

OVERLOOK NURSERIES, INC.

R. 3, Box 428 Mobile, Ala.

AZALEAS

Well-branched liners for shipping now.
These are extra nice plants, having been
sheared at least twice, with splendid root
systems. Let us hook you up now!

INDICA AZALEAS

ELEGANS	INDICA ALBA
FELDER'S WHITE	JUDGE SOLOMON
FISHER'S PINK	PRIDE OF MOBILE
FORMOSA	SALMON

GEORGE L. TABER

HARDY JAPANESE AZALEAS

MACRANTHA, double MACRANTHA, orange

pink

6 to 8 ins. Per 100 Per 1000

CORAL BELLS HINODEGIRI

HEXE PINK PEARL

HIAWATHA SALMON BEAUTY

HINO-CRIMSON SNOW

HEXE DE SAFFELARE

PERICAT PINK PERICAT

DAWN

4 to 6 ins. Per 100 Per 1000

COTTAGE HILL NURSERY

4000 Japonica Lane Mobile, Ala.

AZALEA TRANSPLANTS

Well-rooted, well-branched, top quality.

KURUMES INDICAS

Christmas Cheer Formosa

Coral Bells Judge Solomon

Hexe Pres. Clay

Hinodegiri Pride of Mobile

Pink Pearl Southern Charm

Snow

Kaempferi (hardy Japanese).

Prices on above Azaleas, 100 1000

2-YR. TRANSPLANTS

Christmas Cheer Hexe

Coral Bells Hinoegiri

Snow

Prices on 2-yr. Azaleas, 100 1000

STEPHENS NURSERIES

Semmes, Ala.

AZALEA LINERS, SPRING DELIVERY

Out of 2-in. pots: Amoena coccinea, Coral

Bells, Carmen, Delaware Valley White, hino-

degiri, Herbert, Palestina, Rose Bud and

Snow.

In flats, 60 to a flat: Amoena coccinea,

Coral Bells and hinoegiri.

Prices on pot-grown and flat-grown Azaleas,

\$14.00 per 100, \$125.00 per 1000.

F.O.B. Elizabeth, N. J.

DELAWARE VALLEY NURSERY

948 N. Boad St. Elizabeth, N. J.

5000 AZALEA HINO-CRIMSON

3-yr., field-grown. Each

6 to 8 ins. \$0.60

8 to 10 ins. 1.00

10 to 12 ins. 1.25

12 to 15 ins. 1.50

15 to 18 ins. 1.75

WENTZ NURSERY

Elmer, N. J.

DECIDUOUS AZALEAS

Extremely hardy, seedling grown.

Per 100 Per 1000

MUCRONULATA, early purple:

3-yr., XX, field, 10 to 15 ins. \$60.00 \$550.00

VASEYI, pink:

3-yr., XX, field, 9 to 15 ins. 55.00 500.00

MOLLIS, orange-red:

3-yr., XX, field, 6 to 10 ins. 40.00 350.00

3-yr., XX, liners, 4 to 6 ins. 25.00 220.00

SCHLIPPENBACHI (Royal), pink:

2-yr., X, liners, 3 to 4 ins. 25.00 220.00

ARBORESCENS, white:

2-yr., XX, liners, 4 to 8 ins. 30.00 250.00

SCHLIPPENBACHI and MOLLIS,

5-yr., XXX, budded, B&B at nursery.

Beetle zone only. Minimum mail order \$20.00.

BROOKFIELD GARDENS

U. S. Rt. 46 Delaware, N. J.

AZALEA HINODEGIRI

Field-grown plants, bushy and well-budded

10 rate 100 rate

10 to 12 ins. \$2.00 each \$1.75 each

12 to 15 ins. 2.25 each 2.00 each

15 to 18 ins. 2.25 each 3.00 each

18 to 21 ins. 4.50 each 4.00 each

21 to 24 ins. 5.50 each 5.00 each

24 to 28 ins. 8.00 each 7.50 each

28 to 32 ins. 10.00 each

32 to 36 ins. 12.50 each

3 to 3 1/2 ft. \$15.00 each

3 1/2 to 4 ft. \$25.00 each

4 to 4 1/2 ft. \$40.00 each

4 1/2 to 5 ft. \$50.00 each

Cash and carry.

SPRINGFIELD NURSERY

492 Mountain Ave. Springfield, N. J.

AZALEA LINERS

COLDFRAME-GROWN

IN PEAT MOSS ONE YEAR.

Sturdy plants, well branched, with excel-

lent root systems, \$15.00 per 100, \$125.00 per

1000.

Benikirishima, Betty, Corsage, Fashion,

Gibiyama, Hino-Crimson, Hinomayo, Iedifolia

alba, Othello, Palestina, sherwood.

Cash with order, no packing charges.

AKEHURST NURSERIES

Joppa Road Fullerton, Md.

Phone Northfield 5-7555.

AZALEA TRANSPLANTS

Top-quality stock, well-rooted.

Hinodegiri, \$125.00 per 1000, \$1100.00 per

10,000.

Special price in larger quantity.

Kaempferi hybrids (Flame, Betty, Alice,

Mary, Othello) and Snow, \$125.00 per 1000.

Indica alba, \$125.00 per 1000.

Priced F.O.B. our nursery.

Packing and shipping extra.

DEKALB NURSERIES, INC.

P. O. Box 67 Norristown, Pa.

Phone Broadway 5-1597

HARDY AZALEAS

FOR SPRING DELIVERY

Over 200,000, all sizes, 6 ins. to 3 ft.,

following varieties: Amoena, Coral Bells,

hinodegiri, led. alba, Snow, Maxwell, Kaem-

pferi, in 6 varieties: Orange Beauty, Kurume,

Rose Bud, Addy Wery, Rose Greely and

Favorite.

BAIER LUSTGARTEN NURSERIES

Jericho Turnpike, Middle Island, L. I., N. Y.

AZALEA MOLLIS

True to color. Hand-pollinated.

RED PINK YELLOW

12 to 15 ins., budded for pot sales.

20 to 25 100 or more

\$1.25 each \$1.00 each

Minimum 20 plants. Cash with order.

Free packing, express collect.

WINDY HILL NURSERIES, Saltsburg, Pa.

Dr. C. R. Shuster, owner, Phone 32744.

AZALEAS

Excellent for retail sales, heavily budded. Each
2000 Hino-Crimson, 6 to 8 ins., bed run.\$0.60
500 Hino-Crimson, 6 to 8 ins.50
Cash, F.O.B. Packing at cost.

BROADLEAF GARDENS

Route 13 Onley, Va.

AZALEA LINERS

We have a fine selection of Azalea cuttings, all hardy varieties, \$50.00 per 1000; 1-yr. spring liners, May 1 delivery, \$125.00 per 1000.

BAIER LUSTGARTEN NURSERIES

Jericho Turnpike, Middle Island, L. I., N. Y.

Azaleas, approximately 2000 hino-crimson, 250 Hino-Crimson, 150 Amoenae, 100 Coral Bells, 10 to 15 ins., field-grown, well budded and bushy, for Mothers' day or landscaping. Entire lot reasonable.

R. Hamm, 364 Mountain Ave., Berkeley Heights, N. J. Phone Crestview 3-4007.

HINO-CRIMSON

Beautiful Hino-Crimson and Hino-crimson Azaleas. Dense, bushy, well-budded. Rush your order before all are sold. Also liners, broad-leaved Evergreens and general line quality ornamentals. Write for spring list.

THE TANKARD NURSERIES, Exmore, Va.

AZALEAS

Rooted cuttings, transplants, budded field-grown plants and mollis seedlings.

WIGMORE NURSERIES

Norman Ave., Riverside Park, Riverside, N. J.

Phone Moorestown 9-2210

Classified Ads Offer Maximum Results at Minimum Cost.

BERRY PLANTS

RASPBERRY PLANTS

New Durham Everbearing red Raspberry, bears mid-August to mid-October, up to 3/16-in., \$55.00 per 1000; 3/16 to 1/4-in., \$65.00 per 1000; 1/4-in. up, \$75.00 per 1000. Special prices on lots of 5000 or over.

Amber (yellow) Raspberry, up to 3/16-in., \$100.00 per 1000; 3/16 to 1/4-in., \$160.00 per 100. Supply limited. Write for spring list.

Gathead (very early), Madawaska (very early), Milton (late) and September Everbearing, up to 3/16-in., \$60.00 per 1000; over 3/16-in., \$75.00 per 1000. All prices F.O.B. Strawberry plants, 40 varieties. Write for free catalog and wholesale price list.

WALTER K. MORRIS & SON
Bradford, Mass.

RED RASPBERRY PLANTS

	Per 1000
15,000 Chief, No. 1, 3/16-in. up	\$50.00
6,300 Chief, tr., 1/4-in. up	60.00
15,000 Latham, tr., 1/4-in. up	55.00
6,000 Milton, No. 1, 3/16-in. up	55.00
1,575 Newburgh, tr., 1/4-in. up	55.00
7,000 Sunrise, No. 1, 3/16-in. up	50.00
650 Sunrise, tr., 1/4-in. up	60.00
13,000 Taylor, No. 1, 3/16-in. up	55.00
29,000 Taylor, tr., 1/4-in. up	55.00

Boxing at cost

IVAN R. CONGDON NURSERY

North Collins, N. Y.

STRAWBERRY PLANTS, WELL ROOTED

Double inspected, irrigated.	1000
Dunlap	\$ 7.50
Blakemore	8.50
Robinson	9.00
Armour	10.00
Arrowhead	10.00
Premier	11.00
Pocahontas	12.00
Tennessee Beauty	10.00
Everb. Superfection Gem, Streamliner.	18.00

DOLLAR NURSERY, BLOOMFIELD, IA.

STRAWBERRY PLANTS, FRESH DUG

Premier	\$11.00 per 1000
Red June	10.00 per 1000
Fairland	10.00 per 1000
Temple	10.00 per 1000
Robinson	9.00 per 1000

These are young, healthy plants, true to name, guaranteed to reach you in good growing condition. Cash or C.O.D.

JAY BREUKER, R. R. 2, Holland, Mich.

EVERBEARING STRAWBERRY PLANTS

True to name varieties.

Priced per 1000 plants, collect.

20th Century, \$35.00; Streamliner, \$16.00;

Gem and Superfection, \$15.00.

RASPBERRY PLANTS

Latham and Newburgh, 1-yr., \$40.00.

Write for prices on large amounts.

DAVIS PLANT FARM

Hamilton, Mont.

Strawberry plants, double inspected, north-grown; Dunlap, Blakemore, Giant Robinson, Premier, Bellmar, 1000, \$30.00; up to \$7.50 per 1000. Giant Gem, Streamliner, Superfection everbearing, 1000, \$17.00. These are young, healthy, moss-packed plants, guaranteed to reach you in good growing condition. Iowa Nursery, Farmington, Ia.

Strawberry and Raspberry plants, grown in western Montana where climate and soil is the best for strong, healthy plants. Superfection and Gem, \$14.00 per 1000. Streamliner, \$16.00 per 1000. No. 1 Raspberry plants, Latham and Newburgh, \$50.00 per 1000. Write for new prices on large amounts.

McNeal Berry Nursery, Hamilton, Mont.

SEN. DUNLAP STRAWBERRY PLANTS
Freshly dug, double inspected, moss packed.
\$8.50 per 1000, \$24.00 per 3000.
Can make immediate shipment any quantity.

C. D. WRIGHT, HAMBURG, IA.

SURPLUS STRAWBERRY PLANTS

from our cold storage.
Senator Dunlap and Blakemore, \$7.50 per 1000; Premier and Robinson, \$8.50 per 1000; Gem Everbearing, \$12.50 per 1000.
ANNA NURSERY, Drawer 119, ANNA, ILL.

BULBS AND TUBERS

DAHLIAS

LARGE-FLOWERING

Avalon, yellow	12c
D-Day, rose-pink	18c
Florists' Beauty, red, white edges	20c
Gallant Fox, brilliant red	12c
Golden Eclipse, yellow	15c
Imp. Francis Larocco, deep yellow	15c
Jane Cowd, bronze-yellow	25c
Jean Kerr, white	10c
Jersey's Beauty, pink	20c
Lady in Red, red (Cactus)	25c
Le Toreador, deep red	12c
Michigan White, white	20c
Mrs. James Albion, lemon-yellow	15c
Mrs. Le Bouillier, velvety carmine	12c
Mrs. L. de Ver Warner, lavender	15c
Ogden Reid, pink, rose and yellow	20c
Supt. Amhryn, lavender and pink	15c
White King, white	15c

MINIATURE-FLOWERING

Lemon Drop, yellow	15c
White Fawn, white	15c

POMPON-FLOWERING

Bronze Beauty, bronze	15c
Cardinal, deep red	20c
Golden Queen, rich yellow	15c
Little Herman, red and white	12c
Mary Munns, lavender	12c
Morning Mist, white and lavender	12c
Peggy Wood, white and red	12c
Robust, bright red-scarlet	12c
Yellow Gem, cream-yellow	12c

Minimum order \$5.00.

Not less than 5 of a variety.

LOUIS DANK

1170 Broadway New York 1, N. Y.

GROWING INSTRUCTIONS FREE

Selected Belgian-grown bulbs.

DOUBLE CAMELLIA-FLOWERING

Red, orange, salmon, yellow,

scarlet, pink, copper, white, mixed.

EXHIBITION SIZE	Per 100	Per 1000
2-in.	\$14.00	\$130.00
2-in. to 2-in.	13.00	120.00
1 1/2 to 2-in.	9.00	75.00
1 1/4 to 1 1/2-in.	6.00	50.00

DOUBLE FIMBRIATA (Carnation-type).

6 separate colors or mixed.

DOUBLE PENDULA, in 6 colors.

DOUBLE CAMELLIA, MARMORATA,

ROSEBUD

TOP SIZE	\$15.00	\$140.00
FIRST SIZE	12.00	110.00

Minimum order \$10.00.

Cash with order. F.O.B. Battle Creek, Mich.

VERONA GARDENS, TED GREVERS

Route 5 Battle Creek, Mich.

GIANT TUBEROUS BEGONIAS

Double-flowering Camellia-type, 8 colors.

1 1/4 to 1 1/2-in.	\$ 5.50 per 100, \$45.00 per 1000
1 1/2 to 2-in.	8.50 per 100, 75.00 per 1000
2-in. up	12.50 per 100, 115.00 per 1000

3-in. up 25.00 per 100, 200.00 per 1000

Double-flowering Camellia-type, 6 colors

1 1/4 to 1 1/2-in.	\$ 7.50 per 100, \$60.00 per 1000
1 1/2 to 2-in.	11.50 per 100, 100.00 per 1000
2-in. up	15.00 per 100, 140.00 per 1000

Minimum order \$5.00.

LOUIS DANK

1170 Broadway New York 1, N. Y.

FANCY-LEAVED CALADIUMS

Over 50 of the finest commercial varieties,

fully upgraded.

No. 3, 3/4 to 1 1/4-in.	\$ 7.00 \$ 60.00
No. 2, 1 to 1 1/2-in.	12.00 110.00
No. 1, 1 1/2 to 2 1/2-in.	18.00 160.00
Jumbo, 2 1/2 to 3 1/2-in.	25.00 230.00
Mammoth, 3 1/2-in. up	37.00 350.00

Minimum order \$5.00.

Send for our color chart of 44 varieties.

LOUIS DANK

1170 Broadway New York 1, N. Y.

WHOLESALE ONLY!

A NEW BULB LIST TO ALL OF OUR

CUSTOMERS EVERY MONTH.

FOR BETTER BULBS, PRICED RIGHT

AND PROMPT SERVICE

ASK FOR OUR LATEST LISTINGS ON

BEGONIAS, CALADIUM ESCULENTUM,

CANNAS, CHRYSANTHEMUMS,

DAHLIAS, GLOXINIAS

AND NORTHERN-GROWN GLADIOLI.

F.O.B. POINT OF SHIPMENT.

HARTFORD FARMS, HARTFORD, MICH.

IRRIGATED CANNAS

Red King Humbert, Yellow King Humbert, City of Portland, Richard Wallace, Rosemond Colors, Copper Giant, 500,000 extra large, first grade, 2 to 5-eye divisions, \$35.00 per 1000. Minimum order 250, \$10.00.

A. BARY, WHOLESALE GROWER

1056 1/2 Texas Ave. Shreveport, La.

CANNAS

	Per 100	Per 1000
Red King Humbert	\$5.50	\$45.00
Yellow King Humbert	5.00	47.00
The President	5.50	50.00
City of Portland	5.50	48.00
Richard Wallace	5.50	48.00

Cash or C.O.D.

MONARCH BULB FARMS

501 Walbridge St. Kalamazoo, Mich.

FANCY LEAVED CALADIUM BULBS

THE BEST BULB BUY TODAY FOR YOU

IS OUR No. 1 at 12c or No. 2 at 8c. PRO-

DUCE NICE POTS, GOOD FOLIAGE, FAST

SELLERS, BEST ASSORTMENT COLORS.

FOLDER ON REQUEST. Phone or wire.

FLORIDA CALADIUM GROWERS

Box 226 Lake Placid, Fla.

Phone Homestead 5-2352

CALADIUMS (ELEPHANT'S EAR)

	Per 100	Per 1000
7 to 9 ins. cir.	\$11.00	\$100.00
9 to 11 ins. jumbo	16.00	148.00

Cash or C.O.D.

MONARCH BULB FARMS

501 Walbridge St. Kalamazoo, Mich.

TUBEROSES

	Per 100	Per 1000
Single Mexican, 4 to 6	\$6.00	\$55.00
Double The Pearl, 4 to 6	6.00	55.00

Cash or C.O.D.

MONARCH BULB FARMS

501 Walbridge St. Kalamazoo, Mich.

SURPLUS BULBET SALE

Friendship, \$1.50; F. Nightingale, Red

Charm, Red Wing, Orange Gold, Spic and

Span, Lady Anne, Magnolia, Burma, Red

Cherry, Phantom Beauty, qt., \$1.85, postpaid.

ELLIOTT GLAD GARDENS, Montpelier, O.

GLADIOLI

	Per 1000
50,000 Florists' Mixed, JUMBOS	\$22.00

Cash or C.O.D.

MONARCH BULB FARMS

501 Walbridge St. Kalamazoo, Mich.

DAHLIAS FOR COUNTER SALE

Beautiful color-illustrated boxes, each

containing 4 different giant-flowering Dah-

lias, \$10.00 per carton of 20 boxes.

HAV'ALOOK GARDENS, Fowlerville, Mich.

SPRING AND FALL BULBS.

WRITE NOW.

J. AMAND, BREEZAND, HOLLAND.

More customers for you!

Over 8,000 subscribers, all active buyers.

see your ad in the American Nurseryman.

BUXUS

BOXWOOD

True dwarf Old English, for bordering

flower beds and walks. Field-grown, com-

act, good color.

4-yr.-old, 4 to 6 ins., \$25.00 per 100.

PINKSTON NURSERIES

Parrott, Ga.

BOXWOOD

True dwarf (suffruticosa), well-rooted,

from sand, roots packed in moss.

\$6.00 per 100, \$25.00 per 500.

Packing free. Ready now.

DOTY & DOERNER, INC.

6691 S. W. Capitol Highway, Portland 19, Ore.

CAMELLIAS

CAMELLIA SASANQUA

IN 1 GAL. CONTAINERS

Floribunda, Oleifera, Cleopatra, Day

Dream, in 3-in. bands for lining-out, 45c

each. Cash. F.O.B. Packing at cost.

BROADLEAF GARDENS

Route 13 Onley, Va.

Turn Stock into Dollars

by Listing It in the Classified Ads

of the American Nurseryman.

CHRYSANTHEMUMS

MODERN MUMS

Strong rooted cuttings, 10 100

Copper 'n' Gold (new) a leader

among cushions. Gold with

</

CHRYSANTEMUMS—Continued

SELECTED HARDY CHRYSANTEMUMS
Field divisions.

Our divisions are selected from the most vigorous plants grown in the fields. These divisions are well-rooted and have been hand-trimmed, ready to plant in the fields. In shipment the roots of the plants are protected with sphagnum moss and the tons with excelsior. Each variety is carefully labeled.

PRICES	
100	..... \$ 5.00
500	..... 22.00
1000	..... 40.00

CUT AND DECORATIVE

Admiral, deep rose-red
Carnival, brilliant orange
Chris Columbus, creamy white
Mrs. P. S. du Pont, salmon-pink
Fairbow, lavender-pink Pompon
Honeycomb, golden yellow Pompon
Huntsman, large scarlet
Malinda Brown, excellent lavender-pink
Mogul, wine-rose
Peggy Ann Hoover, Spider, pink
Remembrance, very dark red
Tampico, bronze

LOW GROWING, CUSHION

Allegro, salmon-pink
Autumn Lights, brilliant orange
Black Velvet, very dark red
Butterball, butter-yellow
Champion Cushion, orange-red
Dahlbloom, red
Gladness, lavender Pompon
Little Eskimo, white Pompon
Pygmy Gold, yellow Button
Santa Claus, red
Salute, reddish purple
Sparkle, reddish gold Pompon
Star of Gold, lemon-yellow

For additional varieties, send for price list.
W. S. YOE NURSERIES

Lake St. Madison, O.

HARDY CHRYSANTEMUMS

These are field-rooted divisions and will give utmost satisfaction for potting for spring resale or lining out.

CUSHION TYPES	Per 100
Bronze Cushion	..... \$4.00
Pink Cushion	..... 4.00
Santa Claus, red cushion	..... 4.00
White Cushion	..... 4.00
Golden Carpet, new bright yellow	..... 5.00

TALLER, CUT-FLOWER TYPES

Autumn Lights, new bronze; early	..... 4.00
Algonquin, double bright yellow	..... 4.00
Burgundy, wine-red; large	..... 5.00
Red Beauty, dark red; Decorative	..... 5.00
Redfire, new red; early	..... 4.00
Clara Curtis, early pink Korean	..... 4.00
Chas. Nye, large early yellow	..... 5.00
Chiquita, deep yellow Pom.	..... 5.00
Dahlbloom, new red; early	..... 4.00
Deanna, rose pink	..... 4.00
Ember, glowing orange; large	..... 4.00
Harbinger, golden bronze	..... 5.00
Huntsman, new scarlet-orange	..... 5.00
Irene, white Pom.	..... 4.00
Early Bronze, bronze Pom.	..... 4.00
Little Bob, bronze Button	..... 4.00
Peppita, white Pom.	..... 5.00
Pygmy Gold, yellow Pom.; early	..... 4.00
Elve Longland, apricot-salmon	..... 5.00
Ruby Pompon, dark red; early	..... 5.00
Seminole, white	..... 4.00
Sunape, yellow Pom.	..... 5.00

Order not less than 25 of a variety.

Minimum order, \$4.00.

ELKHART NURSERY CO.

1650 Toledo Rd. Elkhart 3, Ind.

FLOREUM COLORFUL GARDEN MUMS

Our top-grade varieties, bred for early blooming, frost tolerance, winter hardiness. Pinched, ROOTED CUTTINGS, branched. Each variety labeled, true to name.

Hardened outside, ready for field planting.

5 each, 20 varieties, 100 plants	..... \$ 30.00
5 each, 50 varieties, 250 plants	..... 25.00
5 each, 100 varieties, 500 plants	..... 50.00
5 each, 150 varieties, 750 plants	..... 75.00
10 each, 20 varieties, 200 plants	..... 14.00
10 each, 50 varieties, 500 plants	..... 35.00
10 each, 100 varieties, 1000 plants	..... 70.00
10 each, 150 varieties, 1500 plants	..... 100.00
25 each, 20 varieties, 500 plants	..... 30.00
25 each, 50 varieties, 1250 plants	..... 75.00
25 each, 100 varieties, 2500 plants	..... 135.00

FIELD PLANTING TIME, May, June in most sections; to mid-July in central and south.

PRAIRIE SOUTHWEST FLOREUM

Fall River, Kan.

HARDY CHRYSANTEMUMS

Rooted cuttings

	Each
Admiration	..... \$0.10
Crown Jewel	..... .06
Cutie	..... .05
Flaxen Beauty	..... .06
Gondolier	..... .09
Holiday	..... .06
Huntsman	..... .06
Lee Powell	..... .06
Malinda Brown	..... .06
Maquerade	..... .06
Pathfinder	..... .08
Plainman	..... .08
White Cloud	..... .05
Yellow Supreme	..... .05

Write for list.

EDWARD GILSON & SON NURSERY
U. S. Rt. 20 Perry, O.

COTONEASTERS

COTONEASTER PRAECOX

This is one of the hardest Cotoneasters which went through 20 degrees below zero without any harm. It has large berries like cranberries which color up in the middle of August and remain on until very late fall. It grows rather flat and makes an ideal plant to combine with foundation plantings, especially with ranch-type houses. We can offer the following for 1956, 2-yr. transplants, 15 to 18 ins., \$85.00 per 100, \$750.00 per 1000; strong 2-yr. seedlings, \$30.00 per 100, \$250.00 per 1000.

C. HOOGENDOORN

Turner Rd. Newport, R. I.

DELPHINIUMS

PACIFIC HYBRID DELPHINIUMS

Galahad, white; Blue Bird, dark blue; Summer Skies, light blue; King Arthur, purple, and mixed colors, \$11.00 per 100, \$100.00 per 1000. Pink Astolat, \$12.50 per 100. All from 2-in. pots. Excellent coldhouse stock. Ship now or later.

RUSSELL BREECE, R. 3, Delaware, O.

EVERGREENS

EVERGREENS

ROOT-PRUNED AND TRANSPLANTED.
25 at 100 rate; 250 at 1000 rate.

TERMS: As per our published list which includes satisfactory credit or cash with order. NO C.O.D.

YOU WILL LIKE OUR PLANTS.

Each, 10 100 1000

JUNIPERUS ANDORRA PLUMOSA

(Andorra Juniper)

12 to 15 ins., T.T.T. \$0.75 \$0.70 \$0.65

9 to 12 ins., T.T.T.60 .55 .50

12 to 15 ins., T.T.T.80 .75 .70

JUNIPERUS KOSTERI (Koster Juniper)

12 to 15 ins., T.T.T.80 .75 .70

JUNIPERUS PFITZERIA

(Pfitzer Juniper)

We are offering some of the finest

Pfitzers we have ever produced.

12 to 15 ins., T.T.T.85 .80 .75

9 to 12 ins., T.T.T.65 .60 .55

6 to 9 ins., T.T.T.45 .40 .35

JUNIPERUS SAVIN (Savin Juniper)

12 to 15 ins., T.T.T.85 .80 .75

9 to 12 ins., T.T.T.65 .60 .55

6 to 9 ins., T.T.T.45 .40 .35

JUNIPERUS VIRGINIANA

(Eastern Red Cedar)

2 to 3 ft., R.P.55 .50 .45

6 to 9 ins., R.P.10 .08 .06

9 to 12 ins., R.P.15 .13 .10

12 to 18 ins., R.P.20 .18 .15

18 to 24 ins., R.P.45 .40 .35

2 to 3 ft., T.T.T.95 .85 .75

18 to 24 ins., T.T.T.60 .55 .50

PICEA CANADENSIS ALBA

(White Spruce)

6 to 9 ins., R.P.10 .08 .06

9 to 12 ins., R.P.13 .10 .08

PICEA EXCELSA (Norway Spruce)

12 to 15 ins., R.P.20 .18 .15

6 to 9 ins., R.P.09 .07 .05

9 to 12 ins., T.T.T.30 .25 .20

PINUS BANKSIANA (Jack Pine)

18 to 24 ins., R.P.30 .25 .20

PINUS NIGRA (Austrian Pine)

12 to 18 ins., R.P.30 .25 .20

9 to 12 ins., R.P.12 .10 .08

6 to 9 ins., R.P.09 .07 .05

PINUS PONDEROSA (Bull Pine or Western Yellow Pine)

12 to 18 ins., R.P.30 .25 .20

9 to 12 ins., R.P.12 .10 .08

6 to 9 ins., R.P.09 .07 .05

PINUS SYLVESTRIS (Scotch Pine)

12 to 18 ins., R.P.20 .17 .15

9 to 12 ins., R.P.10 .08 .07

6 to 9 ins., R.P.08 .06 .05

THUJA ORIENTALIS

12 to 18 ins., R.P.20 .18 .15

9 to 12 ins., R.P.12 .10 .08

PLUMFIELD NURSERIES, INC.

Fremont, Neb.

SPRING 1956

WHOLESALE PRICE LIST

LINERS, 2-yr. bedded stock 100 1000

Pyramidal Arborvitae

18 to 20 ins. \$25.00 \$200.00

Hetz Juniper, 12 to 14 ins. 27.00 250.00

Andorra Juniper, 12 to 14 ins. 27.00 250.00

Golden Juniper, 8 to 10 ins. 25.00 200.00

Hex rotundifolia, 8 to 10 ins. 25.00 200.00

Ilex convexa, 8 to 10 ins. 25.00 200.00

Taxus hicksii, 8 to 10 ins. 28.00 260.00

Taxus cuspidata, 8 to 10 ins. 28.00 260.00

1-yr. bedded stock in all above

varieties except Pyramidal

Arborvitae 20.00 185.00

250 plants at 1000 rate. Stock offered subject to prior sale. Free packing. Terms: 2 per cent for cash with order or by express C.O.D. shipment.

Members of Lake County Nurserymen's Assn.

LITTLE ACRES NURSERY

H. Wasserman, Prop.

R. D. 2, Chardon Rd. Willoughby, O.

Phone Clifford 6-3632

Pfitzer and Greek Junipers and 6-in. potted Thrift, rooted cuttings, \$55.00 per 1000, 3 varieties Euonymus and Cherry Laurel, potted. Call with truck and pick up.

W. G. Escott, Fort Smith, Ark.

EVERGREEN LINERS AND CUTTINGS

POT-GROWN AND TRANSPLANTS

Pot-grown stock Each, 100 1000

Arborvitae, American, dark

green, 1-yr. 6 to 7 ins. \$0.22 \$0.20

Arborvitae, globe woodwardii, 5 to 6 ins.22 .20

Arborvitae, pyramidalis, 1-yr. 5 to 6 ins.22 .20

Arborvitae, pyramidalis, 2-yr. 6 to 9 ins.27 .25

Juniperus pfitzeriana armstrongii, 1-yr. 4 to 5 ins.24 .22

Juniperus chinensis pfitzeriana, 1-yr. pots, 5 to 6 ins.29 .27

Juniperus chinensis pfitzeriana, 2-yr. pots, 6 to 9 ins.29 .27

Juniperus glauca hetzi, 1-yr. 6 to 7 ins.22 .20

Juniperus glauca hetzi, 2-yr. 6 to 9 ins.27 .25

Taxus intermedia, 2-yr. 6 to 9 ins.24 .22

Taxus cuspidata, 2-yr. 6 to 9 ins.24 .22

Taxus media, spreading, 2-yr. 6 to 9 ins.24 .22

Euonymus alatus compactus, 2-yr. 6 to 7 ins.18 .16

Korean Boxwood, 1-yr., 3 ins.20 .18

Viburnum, leather-leafed, 2-yr. pots, 6 to 9 ins.37 .35

Viburnum burkwoodii, 1-yr., 4 to 5 ins.22 .20

HEAVY ROOTED CUTTINGS

From flats, growing outside in lath house.

Ready for delivery now.

Boxwood, Korean, hardy, 3 ins. \$0.09 \$0.08

Euonymus alatus compactus, 3 to 4 ins., 2-yr., branched09 .08

Euonymus erectus, 3 to 4 ins.07 .06

Euonymus paterii, 3 to 4 ins.07 .06

Juniperus glauca hetzi, 5 ins.11 .10

Juniperus chinensis pfitzeriana, 6 to 7 ins.12 .10

Arborvitae, pyramidalis, 5 to 6 ins.11 .10

Arborvitae, globe, 5 to 6 ins.11 .10

Arborvitae, American, dark green; 5 to 6 ins.11 .10

Taxus hicksii, 5 ins.11 .10

Taxus intermedia, 3 to 4 ins.11 .10

Taxus cuspidata, 3 to 4 ins.11 .10

Taxus andersonii, 4 to 5 ins.11 .10

Taxus media, 3 to 4 ins.11 .10

Taxus hatfieldii, 3 to 4 ins.11 .10

Taxus brownii, 3 to 4 ins.11 .10

Taxus 2 per cent discount.

AND BOXING FREE for cash with order.

Our stock guaranteed 100 per cent satisfactory or return within 6 days for full refund, plus full shipping charges paid.

250 plants at 1000 rate.

MIAMI NURSERY CO.

Tipp City, O.

EVERGREEN LINERS

Each, 100 1000

PFITZER JUNIPER

2 1/2-in. pots, 1-yr. \$0.18 \$0.15

2 1/2-in. pots, 1-yr. (heavy)22 1/2 18 1/2

2 1/2-in. pots, 2-yr.27 1/2 22 1/2

Field-grown, 2-yr.45 .40

Rooted cuttings12 .10

BLUE PFITZER JUNIPER

2 1/2-in. pots, 1-yr.25 .20

Rooted cuttings13 .12

ARMSTRONG PFITZER JUNIPER

2 1/2-in. pots, 1-yr.22 1/2 18 1/2

2-in. pots, 2-yr.26 1/2 22 1/2

Field-grown, 2-yr.40 .35

Rooted cuttings12 .11

HETZ GLAUCIA JUNIPER

2 1/2-in. pots, 1-yr.22 1/2 18 1/2

TAXUS COLUMNARIS

2 1/2-in. pots, 1-yr.20 .15

PYRAMIDAL ARBORVITAE

Field-grown, 4-yr.60 .55

WOODWARD GLOBE ARBORVITAE

2 1/2-in. pots, 1-yr.20 .16 1/2

Field-grown, 4-yr.60 .55

Field-grown, 2-yr.32 1/2 27 1/2

BERCKMANS BIOTA A. N.

2-in. pots, 1-yr.20 .16 1/2

(Delivery May 1.)

COMPACT BIOTA ARBORVITAE

ROOTED CUTTINGS AND LINERS

	Each	100	1000
Arborvitae, globe	\$0.09	\$0.08
Arborvitae, green Niagara,			
4 to 8 ins.09	.08
Arborvitae, pyramidal, 4 to 8 ins.09	.08
Juniper, Hetz, 4 to 8 ins.11	.10
Juniper, Pfitzer, 4 to 8 ins.11	.10
Taxus andersoni, 6 to 8 ins.10	.09
Taxus browni10	.09
Taxus capitata (leaders),			
4 to 8 ins.14	.12
Taxus cuspidata, 6 to 8 ins.09	.08
Taxus hicksi, 6 to 8 ins.09	.08
1-YR. TRANSPLANTS			
Taxus cuspidata, 6 to 8 ins.15	.14
Taxus capitata, 6 to 10 ins.24	.22
Taxus hicksi, 6 to 10 ins.15	.14
2-YR. TRANSPLANTS			
Arborvitae, green Niagara,			
8 to 12 ins.25	.22
Taxus hicksi, 6 to 10 ins.22	.20
GRAFTED SPRUCE, 2 1/2-IN. POTS			
Koster Blue Spruce, each, \$1.25			
GRAFTED JUNIPER, 2 1/2-IN. POTS			
Juniperus burkii	\$0.60	\$0.55
Juniperus canaertii60	.55
50 of a variety at 100 rate.			
300 of a variety at 1000 rate.			
BOXING AT COST.			

DRAKE'S NURSERIES

G-4342 Branch Rd. Flint, Mich.

EVERGREENS, SPRING DELIVERY, 1956

ROOTED CUTTINGS

Euonymus fortunei, carrierel, 100 1000

6 to 8 ins. \$7.00 \$60.00

Juniperus communis suecica nana, (dwarf Swedish), 4 to 5 ins. 8.00 70.00

Retinosporas, 6 to 8 ins. 8.00 70.00

Taxis media hicksi, 5 to 6 ins. 9.00 80.00

Taxis media wardii, 5 to 6 ins. 9.00 80.00

1-YR. TRANSPLANTS Each, 100 1000

Juniperus communis suecica nana, 4 to 6 ins. \$0.30 \$0.25

Jun. glauca hetz, 8 to 10 ins.25 .20

Retinosporas, 8 to 10 ins.22 .18

Taxis media browni, 5 to 6 ins.30 .25

Taxis cuspidata, 6 to 10 ins.25 .20

Taxis cuspidata capitata, 6 to 10 ins.35 .30

2-YR. TRANSPLANTS

Juniperus glauca hetz, 10 to 12 ins.35 .30

Retinosporas, 10 to 15 ins.40 .35

Taxis cuspidata, 10 to 12 ins.35 .30

Terms: Orders under \$100.00, cash with order, please. Orders over \$100.00, 1/2 deposit with order.

NEIDEL'S NURSERY & GREENHOUSE

Mid. Rt. 4, Hasson Heights Oil City, Pa.

EVERGREENS

ROOTED CUTTINGS AND LINERS

Each, 100 1000

Arborvitae, Globe Woodward | \$0.10 | \$0.09 |

Field-grown, 2-yr.20 .19

Arborvitae, pyramidal, 2-yr.10 .09

Field-grown, 2-yr.20 .19

Arborvitae, Siberian wareana, 2-yr.10 .09

Field-grown, 2-yr.20 .19

Juniper, Andorra, 2-yr.10 .09

Field-grown, 2-yr.20 .19

Juniperus excelsa stricta, 2-yr.10 .09

Juniperus hetz, 2-yr.11 .10

Field-grown, 2-yr.20 .19

Juniper, Pfitzer, 2-yr.12 .11

Field-grown, 2-yr.20 .19

Taxis cuspidata, 2-yr.10 .09

Field-grown, 2-yr.20 .19

Taxis hicksi, 2-yr.10 .09

Field-grown, 2-yr.20 .19

Free packing for cash with order. Write or come to see us (One mile west of Rootstown on Route 18.)

ROOTSTOWN GARDEN & GREENHOUSE

R. D. 3 Ravenna, O.

PRIVET HEDGE

Amur River and Ibolium Privet | 1000 | |

1-yr., 9 to 18 ins., 2 canes or more. \$35.00

1-yr., 6 ins. 15.00

1-yr., 9 to 18 ins., 1 cane. 25.00

Ibolium Privet | Each | |

2-yr., 2 to 3 ft. \$0.16

3-yr., 3 to 4 ft.20

English Privet | Each | |

3-yr., 2 to 3 ft.20

These are nice, well-rooted, bushy plants. Samples will be sent on request.

PITZER JUNIPER

Each | | |

15 to 18 ins. \$2.00

18 to 24 ins. 2.50

24 to 30 ins. 3.00

30 to 36 ins. 3.50

Discount on large orders.

PAUL'S NURSERY

R. F. D. 3 Shelby, O.

Phone 32161

POTTED LINERS

1-yr., 2 1/2-in. pots Per 100 | Per 1000 | |

Taxis cuspidata | \$17.00 | \$150.00 |

Taxis hicksi | 18.00 | 170.00 |

Taxis hatfieldi, upright | 18.00 | 170.00 |

Juniper, Pfitzer | 19.00 | 180.00 |

Juniper, Andorra | 19.00 | 180.00 |

Juniper, Hetz | 19.00 | 180.00 |

QUALITY LINERS

	Per 100	Per 1000
Douglas Fir, 4 to 8 ins., tr.	\$15.00
Colorado Blue Spruce, 4 to 8 ins., tr.	15.00
Balsam Fir, 4 to 8 ins., tr.	15.00
Blue Atlas Cedar, 6 to 12 ins., adg.	15.00
Mugho (dwarf) Pine, 3 to 5 ins., tr.	17.50
Canadian Hemlock, 4 to 8 ins., tr.	20.00
Enkianthus camp, 8 to 12 ins., tr.	25.00
American Holly, 8 to 12 ins., tr.	27.50
Taxis, best ass't var., 6 to 8 ins., tr.	25.00
Fr. hybrid Lilac, 6 to 12 ins., grafts.	27.50
Ilex crenata, 8 to 12 ins., tr.	32.50
Rho. hybrid, Fr. red seed, 4 to 10 ins.	45.00
Pink fig. Dogwood, 10 to 15 ins., grafts.	75.00
Magnolia, pink and red, 8 to 15 ins., tr.	75.00
Red Japanese Maple, 1-yr. grafts.	85.00

Send for new spring list.

POSSUM HOLLOW NURSERIES

6909 Henley St. Philadelphia 19, Pa.

HEAVY ROOTED CUTTINGS

Per 100 Per 1000

Arborvitae, dark green American, 6 to 10 ins. \$9.00 \$80.00

Arborvitae, globe, 4 to 8 ins. 9.00 80.00

Arborvitae, wareana, 6 to 10 ins. 10.00 90.00

Juniperus hetz glauca, 6 to 10 ins. 9.00 80.00

Juniper, Savin, 8 to 10 ins. 9.00 80.00

Juniper, Von Ehrh, 8 to 10 ins. 9.00 80.00

Juniper, Andorra, 6 to 10 ins. 9.00 80.00

Juniper, Pfitzer, 6 to 8 ins. 9.00 80.00

Taxis cuspidata, 8 to 10 ins. 10.00 90.00

Taxis hicksi, 6 to 10 ins. 10.00 90.00

Spring delivery. Cash with order earns free packing.

DE WINTER'S NURSERY

653 Port Sheldon Rd. Grandville, Mich.

EVERGREENS

SURPLUS STOCK, ALL B&B

Pink Dogwood, 24 to 30 ins., not budded. \$2.00

Globe Arborvitae, 18 ins. 2.00

Juniperus burkii, sheared specimens, 4 ft. 5.00

Reckmann's Golden Arborvitae, 18 to 24 ins. 1.75

24 to 30 ins. 2.50

Haker's Arborvitae, 30 to 36 ins. 2.50

A complete list of Evergreens, trees, Roses, fertilizers, Peat Moss, etc., available to landscapers and nursery dealers for immediate pickup at our nursery, F.O.B. Maple Heights. Cash at time of pickup.

GALE'S GARDEN CENTER, INC.

5211 Lee Rd., Cleveland (Maple Heights), O.

EVERGREEN SEEDLINGS

Per 100 Per 1000

Concolor Fir, 2-0, 3 to 6 ins. \$ 8.75 \$45.00

Concolor Fir, 3-0, 8 to 10 ins. 12.00 62.00

Colorado Blue Spruce, 2-0, 3 to 6 ins. 6.00 35.00

Scotch Pine (Cert. Austrian Alps), 2-0, 5 to 10 ins. 5.50 25.00

Scotch Pine (Cert. Scotch Highlands), 2-0, 4 to 8 ins. 5.50 25.00

Norway Spruce, 4-0, 8 to 16 ins. 10.75 55.00

Scopolium, 2-0, 6 to 10 ins. 12.75 65.00

Postpaid up to zone 4. 500 at the 1000 rate.

NEUNER'S EVERGREEN NURSERY

368 Eicher Rd. Pittsburgh 2, Pa.

HEAVY ROOTED CUTTINGS

Per 100 Per 1000

Juniperus squamata meyeri \$0.12 \$0.10

Pfitzer Juniper12 .10

Blue Pfitzer Juniper12 .10

Gold-tip Pfitzer Juniper12 .10

Savin Juniper12 .10

Von Ehrh Juniper12 .10

Irish Juniper12 .10

Greek Juniper12 .10

Taxis media12 .10

Write for special prices on larger quantities.

LEAVENWORTH NURSERIES

12th and Vilas Leavenworth, Kan.

CANADA HEMLOCK

Collected seedlings

Per 100 Per 1000

6 to 9-in. seedlings \$ 4.00 \$ 20.00

9 to 12-in. seedlings 6.00 45.00

12 to 18-in. seedlings 8.00 65.00

These are first-quality bushy Hemlocks, carefully dug and packed in sphagnum moss in ventilated boxes.

Send for complete list of lining-out stock.

ISAAC LANGLEY WILLIAMS

Box AN Exeter, N. H.

TAXUS, 2-YEAR-OLD LINERS

Per 100 Per 1000

Hicksi \$35.00 \$350.00

Mooni 35.00 350.00

Hatfieldi 35.00 350.00

Densiformis 35.00 350.00

Cuspidata 35.00 350.00

Cuspidata capitata, from leaders 35.00 350.00

These cuttings are extra heavy.

LARRY'S NURSERIES, INC.

Cranston 10, R. I.

YEWS, 1-YEAR, IN FIELD BEDS

Ready to line out in the field. Per 100 | | |

Taxis capitata, 2-yr., 8 to 10 ins. \$40.00

Taxis cuspidata, 2-yr., 8 to 10 ins. 35.00

Taxis browni, 2-yr., 8 to 10 ins. 35.00

Taxis hicksi, 2-yr., 8 to 10 ins. 35.00

Cotoneaster divaricata, 12 to 15 ins. 25.00

Euonymus vegetus, 8 to 12 ins. 30.00

Alpine Currant, 8 to 10 ins. 20.00

FRED P. STROHL

5061 St. Joe Rd. Fort Wayne, Ind.

EVERGREENS, B&B

Colorado Blue Spruce, good color.

1 to 5 ft., \$1.50 per ft.

American Arborvitae, pruned.

4 to 8 ft., 75c per ft.

5 to 7 ft., for hedge and screen, \$2.50 each.

Few Mugho Pine, 1 to 4 ft.

White Spruce, 1 to 4 ft.

Sold on personal selection only.

CHAMBERLAIN'S EVERGREENS

Ovid, Mich.

PIERS JAPONICA

(Andromeda)

Order now for spring, 1956, delivery.

Per 100 Per 1000

3-yr. plants, 1-yr., open field rows, bushy, 10 to 12 ins., TTT. \$75.00

2-yr. field bed, TT. 30.00

1-yr. flats, T. 10.00 \$90.00

1-yr. seedlings 8.00 75.00

ECKHART NURSERIES

16 Toppa Blvd. Newport, R. I.

PITZER JUNIPERS

Excellent quality

If you are in need of quality Pitzers, here they are. Growing in good balling soil.

Priced to sell, 5 and 6 ft.

All trees to be dug by purchaser

HIGHLAND NURSERY

Fred Eichele

701 Evergreen Rd. Evansville 10, Ind.

TAXUS LINERS

Cuspidata, fine spreading, 6 to 8 ins., trans.

Hatfield, semi-upright, 6 to 8 ins.

Hicksi, good columnar, 6 to 8 ins.

Hunewell, vase-shaped, 6 to 8 ins.

Brevifolia, dwarf spreading, 6 to 8 ins.

\$25.00 per 100; 500 up, \$22.50 per 100.

Send for new spring list of liners.

POSSUM HOLLOW NURSERIES

6909 Henley St. Philadelphia 19, Pa.

B&B EVERGREENS

75 Pfitzer Juniper, 24 to 30 ins. \$3.25

75 Pfitzer Juniper, 30 to 36 ins. 4.00

150 American Arborvitae, 3 to 4 ft. 2.50

25 Andorra Juniper, 30 to 36 ins. 3.75

Priced F.O.B. Onarga, Ill.

LEONARD'S NURSERY

406 N. Locust St. Onarga, Ill.

AMERICAN ARBORVITAE

8 to 12-ft. specimens, \$1.00 per ft., while they last.

Excellent digging.

AMERICAN FORESTRY SERVICE CO.

Lancaster Pike above City Line, Philadelphia 31, Pa.

EVERGREEN SEEDLINGS

POSTPAID, Spring 1956 only.

2 to 4-in., \$4.00 per 100, \$25.00 per 1000.

Alpine Fir, Blue Douglas Fir, Austrian Pine, Jack Pine, Red Pine, Scotch Pine, Ponderosa Pine, Black Hills Spruce, Colorado Blue Spruce, Engelmann Spruce, Norway Spruce.

Cash, please.

C. WILSON'S NURSERY, PEMBINE, WIS.

TAXUS CAPITATA

EVERGREENS—Continued

SURPLUS
200 PFITZER JUNIPERS,
4 ft., extra heavy,
\$4.00, F.O.B. nursery.
Cash with order, please.

WALLITSCH NURSERIES
2608 Hikes Lane Louisville 18, Ky.

NANDINA SEEDLINGS
1-yr., 4 to 6 ins. \$ 5.00 per 100
2-yr., 8 to 10 ins. 10.00 per 100
3-yr., 12 to 15 ins. 15.00 per 100
PINKSTON NURSERIES
Parrott, Ga.

TAXUS CAPITATA
Strong 2-yr. seedlings, seeds sown lightly,
plants grown with plenty of room in beds,
\$15.00 per 100, \$125.00 per 1000.
C. HOOGENDOORN NURSERIES
Newport, R. I.

EVERGREEN EUONYMUS
Advance liners, excellent to pot or can.
Euonymus Newport, 12 to 15 ins., T. \$0.35
Euonymus erectus, 12 to 15 ins., T.35

LINWORTH NURSERY
5785 Godown Rd. Columbus 14, O.

PIERIS JAPONICA
Out of 2-in. pots, \$17.50 per 100, \$150.00
per 1000. F.O.B. Elizabeth, N. J.
DELAWARE VALLEY NURSERY
948 N. Broad St. Elizabeth, N. J.

EVERGREENS
See our Classified ads in this issue under
LINING-OUT STOCK.
T. G. OWEN & SONS, INC.
Columbus, Miss.

RED AND WHITE PINE
5 to 18 ft.
Prices on application.
THE PETER CASCO NURSERY
2600 Albany Ave. West Hartford, Conn.

FRUIT AND NUT TREES

CLOSE-OUT SALE!
JUMBO PEACH TREES.
ALL MAINTAINED IN MODERN STORAGE
WITH GUARANTEED GRADE AND
QUALITY.

BEAUTIFUL, DORMANT, BUDDED TREES.
7/16-IN., HEAVY BRANCHED, 18c.
9/16-IN., BRANCHED, 32c.
11/16-IN., HEAVY, BRANCHED, 42c.

% TO 1-IN., SPECIMEN, 48c.
VARIETIES: J. H. HALE, ELBERTA,
EARLY ELBERTA, RED HAVEN, BELLE
OF GEORGIA, GOLDEN JUBILEE, IN-
DIAN, CORNET, RANGER, CARDINAL,
FRANKIE, DIXIE GEM AND FRANK.

IMMEDIATE DELIVERY.
CASH OR C.O.D. SHIPMENT.
CALL, WIRE OR WRITE TODAY.
WOLFE NURSERY, INC.
Stephenville, Tex.

FRUIT TREES

APRICOTS, hardy: Moorpark, 4 to 5 ft.,
branched, 45c.
PLUMS, Methley, Gold, Damson, Hanska,
Burbank, Bruce, Stanley Prune, 4 to 6 ft.,
branched, 45c.

PEACHES, Red Elberta, Giant Hale, Red
Bird, Hale-Haven, Early Elberta, South
Haven, Fair Beauty, Redhaven, Elberta,
Jubilee, 4 to 5 ft., 35c.

BENTON COUNTY NURSERY CO., INC.
Rogers, Ark.

GARDENIAS

GARDENIA MYSTERY
Well-rooted, sturdy plants. Bench-grown
in sterilized soil and pots. Out of 2½-in.
pots, \$17.50 per 100, \$150.00 per 1000. F.O.B.
Chino, Calif. Packed 65 to a carton. No
packing charge for cash with order.
DESCANSO DISTRIBUTORS, INC.
12492 Pipeline Ave. Chino, Calif.

Quick—Convenient—Cheap!
Selling through the Classified Ads
of the American Nurseryman.

GARDEN ROOTS

RHUBARB VICTORIA
Grown 1 year from divisions, which in-
sures true stock and strong eyes. Good color
and a thrifty grower. Fine for retail sales or
forcing.

2-in. and up \$10.00 per 100, \$90.00 per 1000
No. 2 size 6.00 per 100, 50.00 per 1000
ASPARAGUS WASHINGTON
Strong 2-yr. plants, well-graded. Good for
forcing, \$3.00 per 100, \$18.00 per 1000.
All plants are ready now or through spring.
ROUDEBUSH GARDENS
4331 Needmore Rd. Dayton 4, O.

GRAPEVINES

GRAPE CUTTINGS
Concord and Fredonia, cut from clean,
healthy vineyard, largest in Oklahoma, by
experienced workmen. Tied with wire, 100
to bunch, \$5.00 per 1000, F.O.B. here.
IDEAL FRUIT FARM, STILWELL, OKLA.

GROUND COVERS

GROUND COVERS
Ajuga genevensis, \$5.00 per 100.
Ajuga, red-leaved, \$10.00 per 100.
Ajuga, variegated, \$20.00 per 100.
Hardy Baltic Ivy, \$10.00 per 100.
Euonymus f. coloratus, 1-yr., \$10.00 per 100.
Euonymus f. coloratus, 2-yr., \$22.00 per 100.
Euonymus f. coloratus erectus, 1-yr., \$15.00
per 100.
Euonymus f. coloratus erectus, 2-yr., \$25.00
per 100.
Euonymus f. vegetus, 1-yr., \$10.00; 2-yr.,
\$22.00 per 100.
Blue Plantain Lily, 4-yr., field-grown, \$10.00
per 100.
Euonymus alatus, 18 to 24 ins., heavy, field-
grown, \$35.00 and \$50.00 per 100.
Variegated Vinca minor, \$30.00 per 100.
Also Sedums in variety.

HOPPELTON NURSERY

22 N. West St. Aurora, Ill.
VINCA MINOR (MYRTLE)
field-grown clumps, exc. roots, \$6.50 \$ 60.00
Euonymus radicans col., 1-yr., 15.00 135.00
radicans coloratus, 3-yr., 25.00 225.00
kewensis, 1-yr., 15.00 135.00
kewensis, 2-yr., 22.50
patens, 1-yr., 15.00 135.00
patens, 2-yr., large clump, 25.00
Ajuga genevensis, large clump, 12.50 110.00
Pachysandra, 1-yr., 5.50 50.00
divisions, transplants, 6.50 60.00
F.O.B. Mt. Meadows, Cash, 2% discount.
MOHLE MEADOWLAND NURSERY
Great Meadows, N. J.

VINCA MINOR

(Periwinkle, Hardy Myrtle.)
Finest ground cover; fresh dug. Individ-
ually clumped, \$50.00 per 1000.
Hall's Honeyuckle (Gaponia halliana),
\$45.00 per 1000; 2000 or more, \$40.00 per 1000.
Pachysandra terminalis, 1-year, \$55.00 per
1000; 2000 or more, \$50.00 per 1000.
Ivy prices on request.

H. C. WAUGH

Rt. 1 Gallipolis, O.

THORNDALE SUB-ZERO EVERGREEN IVIES

Special strain, stands 20 degrees below zero.
This English Ivy stays green all year round.
Strong plants from 2½-in. euro pots or 2-in.
plant bands, \$25.00 per 100, lots of 250 or
more; \$30.00 per 100, in lots of 50 or less
than 250. F.O.B. Woodstock.

THORNDALE NURSERY

Dean St. at 176 Woodstock, Ill.

ATTENTION, LANDSCAPERS!
AN EXCELLENT GROUND COVER
Euonymus f. coloratus 100 1000
1-yr., field-grown \$15.00 \$125.00
Ferns: Cash with order, 5% per cent discount
and free packing. All others, 30 days net
with suitable reference. 300 at 1000 rate.

MENTOR ROSE GROWERS, INC.
Little Mt. Rd. Mentor, O.

PACHYSANDRA TERMINALIS
Strong rooted cuttings, \$4.00 per 100, \$37.50
per 1000; \$35.00 per 1000 for any order of
5000 or more. Prompt shipment now through
November.

DUNWOODIE NURSERIES
6 Smart Ave. Yonkers, N. Y.

PACHYSANDRA TERMINALIS
Strong 1-yr. field-grown, \$65.00 per 1000.
HILLCREST GREENHOUSES, Franklin, Pa.

HARDY PLANTS

HEAVY FIELD-GROWN PLANTS
Per 100
Ajuga genevensis \$15.00
Ajuga reptans rubra 15.00
Alyssum saxatile citrinum 18.00
Alyssum saxatile compactum 15.00
Aquilegia Mrs. Scott Elliot's Hybrids 15.00
Aster Harrington's Pink 18.00
Carnations, King of Blacks, scarlet
and red, white, yellow shades 15.00
Chrysanthemum maximum Majestic 30.00
Coreopsis Sunburst 12.00
Delphiniums, Belladonna, Bellamosum, 15.00
Delphinium English Hybrids, mixed 15.00
Dianthus June Carmine 18.00
Gaillardia Portola Hybrids 12.00
Lythrum Robert 18.00
Lythrum, Dropmore Purple 15.00
Mordens Pink 15.00
Penstemon barbatus Pink Beauty 15.00
Penstemon Blue Pearl 18.00
Pyrethrums, English, mixed 18.00
Stokesia Blue Moon 18.00
Tritomas, Glow, Primrose Beauty, Royal 15.00
Veronica incana 18.00
Viola odorata Royal Robe 15.00
Write for complete wholesale price list.
KINGWOOD NURSERIES
Mentor, O.

5000 GENUINE RUSSEL LUPINES
Extra large yearling field plants.
Northern-grown on sandy soil with irri-
gation. Ready for shipping now and later.
\$10.00 per 100; \$45.00 per 1000, \$80.00.
Cash with order or C.O.D.

SCHULTZ PERENNIAL GARDENS
Box 234 Mercer, Wis.

PERENNIALS

Hardy field-grown plants.

Per 100
Alyssum saxatile citrinum \$18.00
Alyssum saxatile compactum 15.00
Anemone pulsatilla 18.00
Aquilegia chrysantha 15.00
Armeria cephalotes rubra 18.00
Armeria Glory of Holland 18.00
Callirhoe involucrata 18.00
Campanula Six Hills Giant 18.00
Campanula calycanthema, blue 15.00
Campanula calycanthema, pink 15.00
Campanula calycanthema, white 15.00
Catananche caerulea 18.00
Clematis mandshurica 22.50
Delphinium Bellamosum 15.00
Dianthus barbatus Pink Beauty 15.00
Dianthus barbatus, white 15.00
Euphorbia polychroma 18.00
Funkia lancifolia 18.00
Gaillardia Giant English 15.00
Gypsophila, Double Dutch 35.00
Gypsophila perfecta (NEW) 75.00
Hemerocallis Cressida 20.00
Hemerocallis Harbinger, yellow 25.00
Hemerocallis Hyperion 25.00
Heuchera brizoides 20.00
Heuchera rosamondi 20.00
Heuchera sanguinea 20.00
Hollyhocks, double maroon, red 15.00
white, yellow and pink 15.00
Hollyhocks, single mixed 15.00
Liatris September Glory 20.00
Linum flavum (Flax) 15.00
Linum narbonense 15.00
Lythrum Dropmore Purple 18.00
Lythrum The Beacon 18.00
Oenothera missouriensis 18.00
Platycodon grandiflorum 15.00
Platycodon mariesi 15.00
Pyrethrum, English, mixed 18.00
Saponaria ocyoides 18.00
Sedum Dragon's Blood 15.00
Teucrium chamaedrys 18.00
Thalictrum glaucum 18.00
Thermopsis caroliniana 18.00
Tritoma Primrose Beauty (yellow) 20.00
Verbascum Pink Domino 15.00
Send for our catalog.

Special prices on 250 or more of each variety.
SPRINGBROOK GARDENS, MENTOR, O.

NEW AND BETTER PERENNIALS

Per 100
Aster Frikarti, 2-in. pots \$2.50 \$20.00
Carnation Kiss of Fire, 2-in. pots 3.00 25.00
Gaillardia The Warrior,
field-grown 3.00 25.00
Gypsophila Rose Felt, field-grown 2.50 20.00
Lythrum Bodger, field-grown 2.50 20.00
Heinlein Moerheim Beauty,
2-in. bands 3.00 25.00
Hemerocallis Rose DuBarry,
field-grown 8.50 75.00
Lythrum Mordens Gleam,
field-grown 3.00 25.00
Lythrum Mordens Rose,
field-grown 3.00 25.00
Tarragon, 2-in. pots 2.00 15.00
Verbena Flame, 2-in. pots 2.50 20.00
Veronica Sunny Border, blue,
field-grown 3.00 25.00
Complete wholesale list free on request.
CARROLL GARDENS, Westminster, Md.

HARDY FIELD-GROWN PERENNIALS
Antibes, 4 good varieties; Aquilegia, 1
separate colors; Arabis, Artemisia, Aubri-
eta, Campanulas, Carnations, Chives, Del-
phinium Pacific Hybrids, 10 separate colors;
Dianthus, Dicentra, Digitalis, Doronicum,
Gaillardia, Geum, Gaura, Rudbeckia, Lupines,
Lythrum, Myosotis, Phlox subulata, 10 va-
rieties; Primroses, Pyrethrum Daisies, Shasta
Daisy Esther Read, Sedums, 10 varieties;
Sweet Williams, Thymes, Tritomas, Trollius,
Violas and Violets.

If you haven't received our list, send for
it now, 100 or more good varieties.

All plants freshly dug for each order.
Orders taken now for spring delivery.
Shipping date, after March 15.

GEORGE FRANK & SON
Penfield, N. Y.

PERENNIALS

Strong field-grown, transplanted stock.
Per 100
AQUILEGIAS, Mrs. Scott Elliott's \$ 8.00
or Crimson Star 7.00
SHASTA DAISY Alaska 7.00
SHASTA DAISY Giant Double 10.00
PYRETHRUM James Kelway 10.00
SCABIOSA (perennial), blue 10.00
CARNATION Grenadin, in Black King,
Golden Sun, Cardinal Red or mixed
colors 7.00
GAILLARDIAS, Burdette Dazzler 7.00
CUSHION MUMS, large field-grown
divisions in bronze, red, pink, white
and lavender 10.00
NORTH POLE NURSERY
Cornucopia, Wis.

HARDY PLANTS

We still have a good selection of healthy,
field-grown perennial plants for spring ship-
ment. If you are willing to pay \$10.00 per 100
for nice plants, we will write for our new list.

WALTERS GARDENS
Route 2 Zeeland, Mich.

Hardy perennial Verbenas, Dixie Red,
white, purple and rose-pink, \$10.00 per 100,
\$90.00 per 1000.
Planters Nursery, Greenville, Ga.

HARDY PERENNIALS Per 100

Pampas-Grass, Plume-Grass, field clumps	\$12.00
White Creeping Phlox, field clumps	10.00
Daisy Shasta Supreme, field clumps	9.00
Artemisia Silver King, field clumps	12.00
Aster Beechwood Challenger, runners	5.00
Aster Countess of Dudley, runners	5.00
Aster Perry's Favorite, runners	5.00
Aster Lady Maddocks, runners	5.00
Aster Victor, runners	5.00
Aster Lavendula, runners	5.00
Aster Mt. Everest, runners	5.00

Order not less than 25 of a variety.
Minimum order, \$4.00.

ELKHART NURSERY CO.

1650 Toledo Rd. Elkhart 3, Ind.

STRONG FIELD-GROWN LINERS

Prized per 100. Minimum order \$4.00.	
Aquilegia Scab. Elliott's, mixed colors	\$4.00
Rapistrum auratum, blue flowers	4.00
Carnation Grenadin, dwarf, mixed	4.00
Carnation Vienna, dwarf, mixed	4.00
Delphinium Belladonna, light blue	3.50
Delphinium Lamartine, dark blue	3.50
Dianthus barbatus Newport Pink	3.00
Dianthus barbatus Scarlet Beauty	3.00
Linum perenne (hardy blue Flax)	3.50
Platycodon grand. (blue Balloon flower)	4.00

Complete list on request.

FLEMING'S FLOWER FIELDS

3100 Leighton Ave. Lincoln 3, Neb.

HEMEROCALLIS

We are among the largest growers of Hemerocallis. 180 dependable varieties; 14 varieties Liriope, the great border and ground cover plant; hardy Giant Hibiscus, also other items. High-quality stock at reasonable prices. Send for our wholesale list.

RIGEL PLANT CO., EXPERIMENT, GA.

HELLEBORUS NIGER

(Christmas Rose)

Our own grown.

3-yr. transplants

\$50.00 per 1000

\$450.00 per 1000

C. HOOGEENDOORN

Turner Rd. Newport, R. I.

GYPSOPHILA BRISTOL FAIRY

Strong 2 1/2-in. pot plants, grafted.

Per doz. Per 100 Per 1000

\$3.50 \$22.00 \$200.00

25 at 100 rate; 250 at 1000 rate.

BLUE ACRE GARDENS

R. R. 3, Box 292-A Piqua, O.

SALVIA, HUSKY SEEDLINGS, extra nice

Bonfire, \$10.00 per 1000; America, \$12.00

per 1000; St. John's Fire, \$15.00 per 1000.

Packed so you need not transplant for a

week or more after arrival. Shipping now.

HOLUB GREENHOUSES, Oskaloosa, Iowa

HEMEROCALLIS

Dawn, Hankow, J. A. Crawford, Sunny West.

\$1.50 per 10, \$12.00 per 100.

Linda, Rajah, Serenade, Vesta, Hyperion.

\$2.00 per 10, \$15.00 per 100.

HURLEY NURSERY, PAINESVILLE, O.

HARDY FERNS, DORMANT ROOTS

Ostrich, Lady, Clayton, Sensitive and Mal-

denhair, \$10.00 per 100, \$75.00 per 1000.

STRAND NURSERY CO.

Taylor's Falls, Minn.

America's Best Source

for Hardy Plants is

THE WAYSIDE GARDENS

Mentor, Ohio

Write for Trade List.

FIELD-GROWN PERENNIALS

Double-flowering Hollyhocks, mixed; Hi-

biscus, mixed, 10c each, \$8.50 per 100.

BENTON COUNTY NURSERY CO., INC.

Rogers, Ark.

TEUCRIUM CHAMAEDRYD 100 1000

Medium size \$12.00 \$100.00

Well rooted cuttings 5.00 45.00

BEARDSLEE NURSERY, PERRY, O.

Pansies, perennials and rock plants in wide

variety. Send for catalog.

PITZONKA'S PANSY FARM & NURSERY

Bristol, Pa.

PERENNIALS BEING DISCONTINUED

Selling out. Ask for special prices.

MOHLE MEADOWLAND NURSERY

Great Meadows, N. J.

Thrift, Dixie Brilliant, red; Heavenly Blue,

Snow White and rose-pink, \$10.00 per 100.

Planters Nursery, Greenville, Ga.

WELER'S BETTER PERENNIALS

WELLER NURSERIES CO., Holland, Mich.

Write for trade list.

HOLLY

ILEX OPACA FEMINA

Heavy 1-yr. liners, potted spring 1955,

from selected, heavy berried specimens,

4 to 8-in. plants, from 2 1/2-in. pots

or deep soil cans,

\$30.00 per 100.

A few male plants at the same price.

WARREN & SON NURSERY

Rt. 11, Box 512

Oklahoma City, Okla.

HONEYSUCKLES

HONEYSUCKLES

Lonicera japonica halliana, extra-heavy No. 1, 3 and 4-year, 18 to 24-in. field plants, 3, 4 to 6 leads, \$40.00 per 100; lighter grade, \$30.00 per 100; sample 100, \$4.00. Experienced labor for grading and packing quantity orders. Immediate shipment. No order too large. Phone: 500W5.

ROBINSON NURSERY CO., Greenville, Ga.

Hall's Honeysuckles, heavy plants, \$4.00

per 100, \$30.00 per 1000.

Planters Nursery, Greenville, Ga.

IVIES

THORNDALE SUB-ZERO EVERGREEN

Special strain, stands 20 degrees below zero.

This English Ivy stays green all year round.

Strong plants from 2 1/2-in. rose pots or 2-in.

plant bands, \$25.00 per 100, lots of 250 or

more; \$30.00 per 100, on lots of 50 or less

than 250. F.O.B. Woodstock.

THORNDALE NURSERY

Highway 176 Woodstock, Ill.

ENGLISH IVY (HEDERA HELIX)

Our super quality, large-leaved strain.

Approved landscape architects' standards.

Grown in the sub-zero snow belt.

Hooking orders for fall shipment.

Per 100 Per 1000

2 1/2-in. pots (2 per pot) \$12.50 \$110.00

Fresh packing, cash with order.

BABCOCK GARDENS

R. 3 Jamestown, N. Y.

BALTIMORE IVY

Hardest Ivy. Fine for wall or ground

cover. True stock. Well-rooted plants. Deliv-

ery now or later. 25 cent down to reserve.

Rooted cuttings, \$6.50 per 100, \$60.00 per 1000.

2-in. pots, \$12.00 per 100, \$110.00 per 1000.

STRATFORD GARDENS

Russell Breece, R. 2 Delaware, O.

BOSTON IVY

2-yr. field-grown

with nice tops and roots.

No. 1, 22c each.

Medium, 16c each.

CONGDON'S WHOLESALE NURSERY

North Collins, N. Y.

LINING-OUT STOCK

LINING-OUT LIST

PRICES SUBJECT TO CHANGE

WITHOUT NOTICE

ALL POTTED LINERS ON THIS LIST

ARE PRICED FOR SHIPMENT IN PAPER

POTS OR CUPS. THOSE WHO PREFER

THE ORDINARY METHOD OF PACKING,

OMITTING THIS ADDED PROTECTION

MAY DEDUCT 1c PER PLANT. THE

1000 RATE APPLIES ON ALL ORDERS;

THEREFORE, PLEASE ORDER IN MULTI-

PLIES OF 25 OR MORE.

EACH

PER 1000

BIOTA SYBILI 2 1/2-in. pots \$0.20

CHAMAECYPARIS LAWSONIANA

ALLUMI, Blue Lawson Cypress

*2 1/2-in. pots 18

*2 1/2-in. pots 20

JUNIPERUS CHINENSIS

PITZERIANA

Rooted cuttings 10

2 1/2-in. pots 17

2 1/2-in. pots 18

JUNIPERUS CHINENSIS

PITZERIANA COMPACTA

Rooted cuttings 10

2 1/2-in. pots 17

JUNIPERUS FORTUNEI

Rooted cuttings 08

2 1/2-in. pots 12

JUNIPERUS CHINENSIS VIRIDIFOLIA

2 1/2-in. pots 25

2 1/2-in. pots 26

JUNIPERUS COM. CRACOVIA.

Polish Juniper

2 1/2-in. pots 15

JUNIPERUS HORIZONTALIS

PLUMOSA, Andorra Juniper

2 1/2-in. pots 16

2 1/2-in. pots 17

JUNIPERUS EXCELSA STRICTA

2 1/2-in. pots 17

2 1/2-in. pots 18

JUNIPERUS GLAUCA HETZI

Rooted cuttings 10

JUNIPERUS HIBERNICA

PASTIGIATA

2 1/2-in. pots 14

2 1/2-in. pots 15

JUNIPERUS JAPONICA PROCUMBENS

2 1/2-in. pots 18

JUNIPERUS JAPONICA VIRGINIALIS

2 1/2-in. pots 20

JUNIPERUS SABINA

TAMARISCIFOLIA

2 1/2-in. pots 18

2 1/2-in. pots 20

JUNIPERUS VIRGINIANA

KETELEERI

2 1/2-in. pots 25

2 1/2-in. pots 27 1/2

TAXUS CUSPIDATA CAPITATA

Rooted cuttings 10

(Continued in next column)

(Continued from previous column.)

TAXUS CUSPIDATA BREVIFOLIA

2 1/2-in. pots 17

2 1/2-in. pots 18

TAXUS CUSPIDATA WYMANI

2 1/2-in. pots 17

TAXUS MEDIA PYRAMIDALIS

2 1/2-in. pots 17

ABELIA GRANDIFLORA

2 1/2-in. pots 12

2 1/2-in. pots 14

BERBERIS JULIANAE

2 1/2-in. pots 25

BUXUS SEMPERVIRENS CRONI

2 1/2-in. pots 22 1/2

ELAEAGNUS FRUITLANDI

2 1/2-in. pots 18

EUONYMUS PATENS, large leaf

2 1/2-in. pots 13

EUONYMUS PATENS, small leaf

2 1/2-in. pots 15

EUONYMUS MICROPHYLLUS

PULCHELLUS

2 1/2-in. pots 15

ILEX CRENATA ROTUNDIFOLIA

2 1/2-in. pots 15

2 1/2-in. pots 17

ILEX CORNUTA BURFORDI

6x8-in., TT, br. 12

2 1/2-in. pots, 2-yr., heavy 15

2 1/2-in. pots, 2-yr., heavy 18

2 1/2-in. pots 25

ILEX CORNUTA, male

2 1/2-in. pots 20

3-in. pots, 2-yr., heavy 25

ILEX CORNUTA, seedlings

2 1/2-in. pots 12

ILEX GLABRA, INKBERY

2 1/2-in. pots 18

2 1/2-in. pots 20

ILEX OPACA FEMINA, true fruiting

variety. (Propagated from cuttings,

taken from trees of hardy berry-

bearing Ilex opaca.)

*2 1/2-in. pots 30

ILEX OPACA HOWARDI

2 1/2-in. pots 18

2 1/2-in. pots 20

ILLICUM ANISATUM

2 1/2-in. pots 18

LAUROCARASSUS CAROLINIANA,

Cherry-Laurel

6x8-in. seedlings 08

8x12-in. seedlings 10

2 1/2-in. pots 12

2 1/2-in. pots 15

LIGUSTRUM JAPONICUM

2 1/2-in. pots, 2-yr. 15

MAHONIA BEALEI

LINING-OUT STOCK—Continued

BEDDED STOCK

1 year in the open.

	Per 100	Per 1000
<i>Ilex convexa</i>	\$20.00	\$180.00
<i>Ilex rotundifolia</i>	20.00	180.00
<i>Sarcococca hookeriana</i>	25.00	.....
<i>Taxus hicksii</i>	17.50	150.00
<i>Taxus hatfieldii</i>	17.50	150.00
<i>Taxus cuspidata</i>	17.50	150.00
<i>Taxus capitata</i> , cutting-grown.....	25.00	225.00

SEEDLINGS AND TRANSPLANTS

<i>Abies douglasii</i> , 2-yr., S.....	4.00	35.00
<i>Cornus florida</i> , 1-yr., S.....	6.00	50.00
<i>Cornus florida</i> , 2-yr., S.....	9.00	80.00
<i>Euonymus alatus</i> , 1-yr., S.....	3.50	30.00
<i>Euonymus alatus</i> , 2-yr., S.....	6.00	50.00
<i>Euonymus alatus</i> comp., 1-yr., S.....	5.00	40.00
<i>Euonymus alatus</i> comp., 2-yr., S.....	6.00	50.00
<i>Ilex crenata</i> , 2-yr., S.....	7.00	60.00
<i>Picea engelmannii</i> , 3-yr., S.....	5.00	40.00
<i>Picea excelsa</i> , 2-yr., S.....	2.50	20.00
<i>Picea excelsa</i> , 3-yr., S.....	3.50	30.00
<i>Picea pungens</i> , 2-yr., S.....	3.50	30.00
<i>Picea pungens</i> , 3-yr., S.....	4.50	40.00
<i>Pinus austriaca</i> , 2-yr., S.....	7.00	60.00
<i>Pinus densiflora</i> , 2-yr., S.....	6.00	50.00
<i>Pinus mughus</i> , Tyr., 2-yr., S.....	5.50	50.00
<i>Pinus resinosa</i> , 2-yr., S.....	6.00	50.00
<i>Pinus thunbergii</i> , 2-yr., S.....	5.50	50.00
<i>Pinus strobus</i> , 2-yr., S.....	4.50	40.00
<i>Pinus sylvestris</i> , 2-yr., S.....	3.00	25.00
<i>Syringa vulgaris</i> , 2-yr., S.....	4.00	30.00
<i>Taxus capitata</i> , 1-yr., S.....	5.00	40.00
<i>Taxus capitata</i> , 1-yr., S.....	6.00	50.00
<i>Tsuga canadensis</i> , 2-yr., S.....	10.00	90.00
transplants, 4 to 6 ins.....	9.00	80.00
3-yr., transplants, 6 to 9 ins.....	16.00	150.00

Heavy liners, field-grown in nursery rows, bare-roots.....	Per 100	Per 1000
<i>Cornus florida rubra</i> , 1-yr. buds.....	\$150.00	.....
<i>Cornus florida rubra</i> Prosser, 1-yr. buds, 18 to 24 ins.....	200.00	.....
<i>Buxus sempervirens</i> , 6 to 9 ins.....	35.00	.....
<i>Pinus thunbergii</i> , 8 to 10 ins.....	50.00	.....
<i>Pinus thunbergii</i> , 8 to 10 ins.....	50.00	.....
<i>Pinus austriaca</i> , 6 to 8 ins.....	20.00	.....
<i>Pinus austriaca</i> , 8 to 10 ins.....	30.00	.....
<i>Pinus austriaca</i> , 10 to 15 ins.....	40.00	.....

Above stock has been transplanted several times, ready to pot in Cloversets for call trade. Special price on large quantities.		
Pot-grown grafts, May shipment.....	Per 100	Per 1000
<i>Acer polymorphum atropurpureum</i>	\$75.00	.....
<i>Betula laciniata</i> (Cutleaf Birch).....	60.00	.....
<i>Carpinus betulus fastigiata</i>	60.00	.....
<i>Cornus florida rubra</i>	60.00	.....
<i>Cornus florida rubra</i> Prosser.....	65.00	.....
<i>Cornus florida welchii</i> var.....	65.00	.....
<i>Hamamelis mollis</i>	60.00	.....
<i>Fagus sylvatica riversi</i>	60.00	.....
<i>Fagus sylvatica</i> , tricolor.....	75.00	.....
<i>Pinus cembroides</i>	60.00	.....
<i>Retinospora obtusa gracilis</i>	50.00	.....
<i>Tsuga canadensis pendula</i>	60.00	.....
<i>Tsuga canadensis atrovirens</i>	60.00	.....
<i>Viburnum carlesii</i>	50.00	.....
<i>Viburnum rufidulum</i>	50.00	.....
<i>Viburnum burkwoodii</i>	50.00	.....
<i>Kwanzan Cherry</i> , root grafts.....	20.00	.....
<i>Malus Almey</i> , root grafts.....	20.00	.....
<i>Weeping Cherry</i> , root grafts.....	20.00	.....

Special prices on large quantities.

VERKADE'S NURSERIES, Wayne, N. J.

EVERGREENS

<i>Blue Hetz Juniper</i> , 6 to 8-in. bands.....	\$0.14 1/2	.....
2-yr., 6 to 8-in., bare-root.....	.08	.....
<i>Andorra Juniper</i> , 6 to 8-in. bands, 2-yr.....	.14 1/2	.....
<i>Dwarf Pfitzer</i> (nana), bands, 5 to 6-in.....	.20	.....
<i>Worland Juniper</i> , 10 to 12-in.....	.....	.....
bands, 2-yr.....	.14 1/2	.....
<i>Spreading Jap. Yew</i> , 2-yr., 6 to 8-in.....	.....	.....
bands.....	.20	.....
<i>Golden vicari Privet</i> , yellow.....	.....	.....
6 to 8-in. bands.....	.14 1/2	.....

DECIDUOUS, BARE-ROOT

<i>Chinese Privet</i> , Wayside Gardens strain, 6 to 12 ins.....	.02 1/2	.....
<i>Regals Privet</i> , 3 to 10 ins.....	.02 1/2	.....
<i>Weigela rosea</i> , 5 to 6 ins.....	.04	.....

BROADLEAFS, bare-root

<i>Euonymus coloratus</i> , 6 to 10 ins.....	.02 1/2	.....
<i>Euonymus patens</i> , small or large-leaved, 6 to 10 ins.....	.04	.....
<i>Variegated-leaved Honeysuckle</i> vine, 5 to 6 ins.....	.08	.....

PERENNIALS, bare-root

<i>Carnation Crimion King</i>.....	.05	.....
<i>Phlox subulata</i> Emerald Cushion.....	.02 1/2	.....
<i>Phlox subulata</i> , best pink.....	.02 1/2	.....
<i>Teucrium chamaedryf</i>.....	.04	.....
<i>Verbenas</i> , pink.....	.06	.....
<i>Verbenas</i> , lavender-pink.....	.06	.....

All prices are at 1000 rate; 300 or more total order. Less than 300, add 2c per plant.

McININCH GREENHOUSES

St. Joseph, Mo.

LINING-OUT STOCK

	Each	100	1000
<i>Ilex convexa</i> , 6 to 8 ins.....	\$0.30	\$30.25	.....
<i>Ilex hetzi</i> , 8 to 12 ins.....	.40	35	.....
<i>Ilex rotundifolia</i> , 6 to 8 ins.....	.30	25	.....
<i>Ilex rotundifolia</i> , 8 to 12 ins.....	.40	35	.....

Grown 2 years in beds, planted 8 ins. apart. The larger size makes ideal plants for gallon cans and direct sales to the yard.

Pieris japonica, 2 to 3 ins..... \$0.30 \$0.25

GERARD K. KLYN, INC., MENTOR, O.

Wholesale Rose Growers and Nurserymen

GOLDEN GOOSE LINERS

For immediate delivery or for reservation. All quotations are for beautiful lining-out stock from 2 1/4-in. pots, grown in open beds, under field conditions and ready for field planting.

	Per 100	Per 1000
<i>Ilex cornuta femina</i> , 6 to 8 ins.....	\$10.00	.....
10 to 12 ins.....	12.00	.....
<i>Ilex cornuta burfordii</i> , 6 to 8 ins.....	10.00	.....
10 to 12 ins.....	12.00	.....
<i>Ilex crenata rotundifolia</i> , 6 to 8 ins.....	8.00	.....
10 to 12 ins.....	10.00	.....
<i>Ilex crenata bullata</i> , 6 to 8 ins.....	12.00	.....
<i>Euonymus radicans</i> (small leaf), 8 to 10 ins.....	8.00	.....
<i>Euonymus patens</i> (large leaf), 8 to 10 ins.....	8.00	.....
3 to 10 ins.....	8.00	.....

Our Hollies are grown from either cuttings or grafts, from well-berried specimens, insuring berries for you.

This stock guaranteed 100 per cent satisfactory, or return for full refund.

TERMS: Packing without cost. 25 per cent with order, balance C.O.D. Minimum 50 of a kind, please.

EVERGREEN NURSERIES

Poplar Pike

Germantown, Tenn.

PLANTS OUT OF 2 1/4-IN. POTS

	Per 100	Per 1000
<i>Von Ehron Juniper</i> , heavy, 2-yr.....	\$18.00	.....
15 to 18 ins.....	.....	.....
<i>Juniperus chin.</i> , fortune, heavy 2-yr.....	17.50	.....
10 to 12 ins.....	17.50	.....
<i>Juniperus chin.</i> , sylvestris, heavy 2-yr.....	17.50	.....
10 to 12 ins.....	17.50	.....
<i>Juniperus chin.</i> Blue Vase (a Pfitzer sport), 4 to 6 ins.....	25.00	.....
Very blue-gray and natural vase shape.....	15.00	.....
<i>Green bonita Arborvitae</i> , 2 1/4-in. pots.....	15.00	.....
<i>Golden bonita Arborvitae</i> , 2 1/4-in. pots.....	15.00	.....
<i>Blue Spire Arborvitae</i> , 2 1/4-in. pots.....	15.00	.....
<i>Yew</i> , small-leaved, 2 1/4-in. pots.....	15.00	.....
<i>Cherry Laurel</i> , 2 1/4-in. pots.....	12.00	.....
<i>Yaupon Holly</i> , 2 1/4-in. pots.....	12.00	.....
<i>Barbados Cherry</i> , 2 1/4-in. pots.....	12.00	.....
<i>Yeddo Hawthorne</i> , 2 1/4-in. pots.....	12.00	.....
<i>Green Pittosporum</i> , 2 1/4-in. pots.....	15.00	.....
cutting-grown.....	15.00	.....
<i>Burford Holly</i> , 2 1/4-in. pots, cutting-grown.....	15.00	.....

BRADSHAW'S NURSERY

League City, Tex.

Phone 8-4311

LINING-OUT STOCK

	100	1000
<i>Caryopteris</i> , rooted cuttings.....	\$ 8.00	\$ 70.00
<i>English Ivy</i> , rooted cuttings.....	5.00	45.00
<i>Euonymus vegetus</i> , rooted etc.....	7.00	60.00
2 1/4-in. pots.....	17.50	160.00
<i>Pyracantha lalandi</i> , rooted etc.....	10.00	80.00
2 1/4-in. pots, 2-yr.....	20.00	180.00
<i>Taxus cuspidata</i> , rooted cuttings.....	10.00	80.00
2 1/4-in. pots, 2-yr.....	24.00	220.00
<i>Ilex rotundifolia</i> , 2-in. pots.....	18.00	160.00

2-yr. EDWARD GILSON & SON NURSERY

U. S. Rt. 20 Perry, O.

POTTED LINERS

	Each	Per 100
<i>Pfitzer Juniper</i> , from 2 1/4-in. pots.....	\$0.15	.....
<i>Savin Juniper</i> , from 2 1/4-in. pots.....	.20	.....
<i>Pyracantha lalandi</i> , from 2 1/4-in. pots.....	.20	.....
<i>Pyracantha lalandi</i> , from 3-in. pots.....	.30	.....

Prices shown are for any quantity.

F.O.B. Kansas City, Mo. Cash, please.

GLASSCOCK BROS.

6119 Agnes Ave. Kansas City 30, Mo.

LINING-OUT STOCK

	100	1000
<i>Franklinia alabamaha</i> , 8 to 12-in. seedlings.....	\$20.00	.....
<i>Poncirus trifoliata</i> , 8 to 12-in. seedlings.....	20.00	.....
<i>Poncirus trifoliata</i> , 2 1/4-in. pots.....	20.00	.....
These are 2-yr., well-rooted seedlings, ready for immediate shipment. Our stock is limited.	.....	.....

Route 2 MILLCREEK NURSERY Newark, Del.

PYRACANTHA COCCINEA LALANDI

Hardy stock from selected fruiting plants.

Per 100

3-in. pots, TT, 8 to 10 ins., branched, \$32.50

P. KASAN, dwarfed form, heavy fruiting.

3-in. pots, TT, 8 to 10 ins., branched, \$2.50

Immediate shipment. Free packing for cash.

BABCOCK GARDENS

Rt. 3 Jamestown, N. Y.

FINER LINERS

To buy the best is not only a good business—it's thrifty. FINER LINERS are best for many reasons. Send for your free copy of our current catalog of ornamental aristocrats, featuring *Acer* to *Viburnum*.

JOHN VERMEULEN & SON, INC.

Dept. AN 9 Neshean Station, N. J.

LINING-OUT STOCK

	Euonymus alatus	2-yr., X, 8 to 12 ins.
.....	\$15.00	per 100.

Write for better price for larger amount.

BLUE RIDGE NURSERY

R.D. 3 Harrisburg, Pa.

HEAVY LINERS, 3-IN. POTS

BOOK YOUR SUPPLY NOW.

ITALIAN CYPRESS.....\$0.12

PFITZER JUNIPER......17

Write, call or wire.

WOLFE NURSERY, INC.

Stephenville, Tex.

JUNIPERUS HETZI GLAUCA

Some bedded, some from 2 1/4-in. pots.

8 to 12 ins. tall, \$25.00 per 100.

SINGER ARDEN, S.

Stamping Ground, Ky.

PACHYSANDRAS

PACHYSANDRAS

Out of 2-in. pots, \$12.00 per 100, \$100.00

per 1000. F.O.B. Elizabeth, N. J.

DELAWARE VALLEY NURSERY

948 N. Broad St. Elizabeth, N. J.

PEONIES

PEONY PLANTS, BEST VARIETIES

VERY REASONABLE; UP TO 30,000.

VERY GOOD SELLER ON ROAD STANDS.

APPLY TO

P & M EVERGREEN FLORIST SUPPLIES

810 6th Ave. New York 1, N. Y.

Surplus Stock

can be easily and quickly turned into

Cash

by listing it in the

American Nurseryman Classified Ads.

PHLOX

HARDY PHLOX.

Strong No. 2 grade, immediate delivery.

Adonis, bright red.....\$8.00 per 100

American Beauty, deep pink.....7.00 per 100

Cameo Queen, delicate pink.....8.00 per 100

C. Vandenberg, lavender-blue.....7.00 per 100

Elaine, orange-crimson.....8.00 per 100

Esquire, rose-pink.....8.00 per 100

Leo Schlageter, sea-ot.....7.00 per 100

Lynette, salmon-pink.....7.00 per 100

Orange Queen, orange and salmon.....8.00 per 100

Pink Charm, clear pink.....7.00 per 100

Pinkette, soft pink.....8.00 per 100

Ruby Lee, plum-red.....7.00 per 100

Spitfire, salmon-orange.....8.00 per 100

World Peace, pure white.....8.00 per 100

Phlox note: All phlox are bundled in 25

lots. We find the No. 2 grade useful for

spring counter sale in containers and for

lining-out to the field for late summer sales.

CUNNINGHAM GARDENS, INC.

Waldron, Ind.

PHLOX SUBULATA (CREEPING PHLOX)

Admiration, dainty pink with white eye

Alba, pure white flowers

Astro, deep orchid-rose

Blue Hills, attractive pale blue

Butterfly, lilac bluish with purple eye

Crimson Beauty, showy cyclamen-red

Sensation, pure pink with red eye.

Transplants, from field rows, \$9.00 per 100,

\$85.00 per 1000, prepaid.

Liners, \$5.00 per 100, \$45.00 per 1000, pre-

paid.

250 or more of a variety at 1000 rate.

Properly moss packed, labeled and shipped

transportation prepaid by us. Cash, please.

TANGLEWOOD FARM

Box 336-N Clinton, S. C.

HARDY PHLOX

Strong No. 1 grade, immediate delivery

from refrigerated storage.

Adonis, bright red.....\$2.00 \$3.75

American Beauty, deep pink.....1.75 3.25

Cameo Queen, delicate pink.....1.75 3.25

C. Vandenberg, lavender-blue

PRIVET

PRIVET
We can still supply
Ligustrum Amur River North.
8 canes and up, very nice.

15 to 18 ins.	Per 100
18 to 24 ins.	\$11.00
2 to 3 ft.	13.00
LITTLE MOUNTAIN VIEW NURSERIES	17.00
Rt. 84	Mentor, O.

CALIFORNIA PRIVET

(Ligustrum ovalifolium)

Heavily rooted, best quality.

18 to 24 ins.	\$ 50.00 per 1000
2 to 3 ft.	100.00 per 1000

Ask for special quotations on larger quantities.

BOULEVARD NURSERIES

Newport, R. I.

VARIEGATED PRIVET, POTTED

2 1/2-in., 10c; 2 1/2-in., 15c.

4-in. stock plants, 35c each.

BOCK, FLORIST

275 West Leffel Lane Springfield, O.

Amur River North Privet	100	1000
Branched, 18 to 24 ins.	\$3.00	\$28.00
2 to 3 ft.	4.00	30.00
3 to 4 ft.	5.00	40.00

RHODODENDRONS

HYBRID RHODODENDRONS

For the past four years we have concentrated exclusively on the production of own-root hybrid Rhododendrons. We now offer in 3-in. bands or in flats, vigorous well-rooted stem cuttings.

America	\$75.00 per 100
Catawbiense album	75.00 per 100
Caracacius	75.00 per 100
Giganteum	75.00 per 100
Roseum elegans	50.00 per 100

No shipping.

EAST NORTHPORT NURSERIES

415 Clay Pitts Rd.

East Northport, L. I., N. Y.

Phone Forest 8-7240

2-YR. GRAFTED

HYBRID RHODODENDRONS

1-yr. bedded and 1-yr. lath house grown.

Reds: Dresselhuys, Rutgers, Bettes, Lovink, E. S. Rand. Pinks: Roseum elegans and others.

Bed-run, 8 to 12 ins., \$1.50 each. Minimum order 25 plants. Cash with order, free packing. Shipped express collect, beetle zone only.

WINDY HILL NURSERIES

Dr. C. R. Shuster, owner

Wood St. Phone 32744 Saltsburg, Pa.

RHODODENDRONS

For immediate shipment. Unnamed hybrids of hardy ponticum, catawbiense parentage. Good foliage. With firm, lightweight ball, twice transplanted, bed-grown.

4 to 6 ins., 20c each; approx. 25 lbs. per crate. 50 plants per crate. Order by crate only. 500 or more of a size, 10 per cent discount. Lightweight, expert, frost-proofed crating free. Cash with order.

RICHARD P. RESSEL NURSERY

Mulino, Ore.

RHODODENDRON HYBRIDS

1-year, field-grown grafted plants, imported from Holland in the spring, \$75.00 per 100, \$350.00 per 500, \$650.00 per 1000 lot.

List of varieties on demand.

PARMENTIER'S ROSES

Bayport, L. I., N. Y.

RHODODENDRON HYBRIDS

1-year, field-grown grafted plants, imported from Holland in the spring, \$75.00 per 100, \$350.00 per 500, \$650.00 per 1000 lot.

List of varieties on demand.

VERKADE'S NURSERIES, Wayne, N. J.

25,000 hybrid Rhododendrons, liners, cuttings; red, pink, white, yellow; year-round; rooted cuttings. Azaleas, flats, 1, 2, 3-yr., all varieties.

Kordus Nursery, Deer Park Ave., R. F. D. 4, Huntington, L. I., N. Y.

Rhododendron catawbiense grandiflorum, rooted cuttings with peat ball, \$50.00 per 100, \$450.00 per 1000.

Rudolph Kluis, R. 22, Box 164, Bound Brook, N. J.

ROSEBUSHES

ROSEBUSHES.

Wholesale only.

I GIVE UP!

After several hours trying to write an ad with sales appeal, will simply say they are the best I have ever seen. Write for complete list and prices today.

NEW LONDON ROSES

Box 876 Overton, Tex.

FIELD-GROWN ROSES.

2-year-old, extra heavy and healthy stock.

List and prices sent on request.

D & D COMPANY, ROSE SPECIALISTS

42 Monmouth Rd. Eatontown, N. J.

FIELD-GROWN ROSEBUSHES

FINEST QUALITY

Hybrid Teas, Floribundas.

Polyanthas and Climbers.

Price and variety list on request.

WELLS BROS. NURSERY

Box 625 Lindale, Tex.

MENTOR-GROWN ROSES

PATENTED AND COMMON

Visitors welcome. Price list on request.

PINNEY NURSERY, Box 64, Mentor, O.

SEEDS

LAWN SEED

MERION BLUE GRASS

ZOYSIA JAPONICA

Lawn seed mixture

1 lb. covers 700 sq. ft.

\$3.50 per lb., \$16.25 per 5 lbs., postpaid.

WILD WHITE CLOVER

Small leaved. Ideal for lawns.

\$3.00 per 2-lb. bag, \$5.50 per 5-lb. bag, postpaid.

Send for descriptive leaflets and complete wholesale lawn seed price list.

HERBST BROTHERS

SEEDSMEN, INC.

678 Broadway New York 12, N. Y.

THALICTRUM LAVENDER MIST

This beautiful new hardy perennial has proved outstanding both as a cut flower and for the border. Use it same as Baby's Breath.

Generous pt. pkt., \$1.00; \$6.00 an oz.

SUNNY BORDER NURSERIES

Kensington, Conn.

SHRUBS AND TREES

SURPLUS NURSERY STOCK

The items listed below are all first-class, transplanted stock, but are too heavy for our mail-order trade.

Arctic Willow, 24 to 36 ins., extra heavy. 24c

Dogwood, Bailey, 18 to 24 ins., 20c

Forsythia ovata, 18 to 24 ins., 25c

Kolkwitzia amabilis (Beauty Bush), 18 to 24 ins., 35c

Spiraea sorbifolia (Sorbaria), 18 to 24 ins., 30c

thunbergi, 18 to 24 ins., 25c

vanhouttei, 24 to 36 ins., extra fine, 20c

Snowberry, white (Symphoricarpos), 18 to 24 ins., 24c

Russian Olive, 24 to 36 ins., trans., 24c

European Mountain Ash, 2 to 3 ft., trans., 25c

3 to 4 ft. trans., 35c

May Day Tree (Prunus padus), 3 to 4 ft., trans., 35c

Raspberry, September, 1-yr., No. 1, 1c

Tritoma pfitzeri, No. 1 diva., 5c

No charge for boxing or baling on orders of \$25.00 or more, when cash is sent with order.

J. W. JUNG SEED CO., Randolph, Wis.

TAXUS CAPITATA FROM

JAPANESE SEED

2-yr. seedlings, 4 to 6 ins., \$8.00 per 1000.

2-yr. seedlings, 2 to 4 ins., \$45.00 per 1000.

Grafted stock for spring, 1956 delivery.

Acer palmatum atropurpureum, pot grafts, \$65.00 per 100.

Cornus Florida rubra, pot grafts, \$55.00 per 100.

Rhododendron hybrids, red, pot grafts, \$30.00 per 100.

Terms: Cash with order.

PETER BROUWER'S NURSERIES

24 Lester St. New London, Conn.

For \$3.50

you can offer that surplus in a classified ad of 10 lines on these pages—quickly and easily turning stock into cash.

AT 35c PER LINE

you can keep a list of specialty items before trade buyers through the selling season at small cost.

Send your copy (count 6 average words to line) for the next issue to reach us by April 13.

Forms for May 15 issue will close Friday, April 27.

AMERICAN NURSERYMAN

343 S. Dearborn St. CHICAGO 4, ILL.

ROOT GRAFTS

KWANZAN AND WEEPING CHERRY.

\$20.00 per 1000

SYRINGAS (French Lilac), \$15.00 per 1000.

Charles X Pres. Greys

Ludwig Spaeth Mme. Lemoine

POT GRAFTS

All understocks established 1 year in pots.

Available after May 15.

Per 100

Acer palmatum atrop. (Red Jap. Maple) \$65.00

Acer palmatum dissectum atropurpureum (Red Cutleaf Jap. Maple) 65.00

Acer platanoides (Fassens Black) 65.00

Cornus florida rubra (pink Dogwood) 50.00

Cornus florida rubra Prosser (red Dogwood) 65.00

Cornus florida pendula (Weeping white Dogwood) 50.00

Cornus florida plena (double-flowering white Dogwood) 50.00

Cornus florida welchii (variegated) 60.00

Fagus sylvatica asplenifolia (Fernleaf Beech) 65.00

Fagus sylvatica riversi (Purple Beech) 65.00

Fagus sylvatica pendula (Weeping Beech) 65.00

Fagus sylvatica fastigiata (upright) 65.00

Fagus sylvatica tricolor (purple, white, pink) 65.00

Picea pungens kosteri (Blue Spruce) 100.00

Pinus strobus nana (dwarf White Pine) 50.00

Pinus strobus pendula (Weeping White Pine) 50.00

Pinus strobus fastigiata (upright White Pine) 50.00

Pinus parviflora glauca 50.00

Pinus cembra (Swiss Stone Pine) 50.00

Pine, Tanyosho (Jap. Table Pine) 50.00

Viburnum juddi 50.00

Tsuga canadensis pendula (Weeping Hemlock) 50.00

POT-GROWN CUTTINGS, READY MAY 15

Andromeda japonica (Pieris) \$15.00

Pracantha lalandi (Firethorn) 15.00

Rhododendron wilsoni 35.00

ROOTED CUTTINGS, READY MAY

Per 100 Per 1000

Azalea hinodegiri \$6.00 \$50.00

Hex convexa 7.00 65.00

TRANSPLANTS

Andromeda japonica, 2-yr., 8 to 10 ins., own-root, 25.00 225.00

Azalea mucronulata, 2-yr., seedlings, 10 to 12 ins., 25.00 200.00

RUMMEL NURSERIES

Pompton Plains 1, N. J.

POTTED GRAFTS FOR SPRING

Per 100 Per 1000

Acer palmatum atropurpureum \$ 65.00

dissectum 65.00

Fagus sylvatica asplenifolia 65.00

Fagus sylvatica pendula 65.00

Fagus sylvatica riversi (Purple Beech) 65.00

Picea pungens moerheimi 100.00

Picea pungens kosteri 100.00

Pine, Tanyosho 50.00

Tsuga canadensis sargentii 50.00

ROOTED CUTTINGS

TRANSPLANTED IN FLATS

Per 100 Per 1000

Azalea Hino-Crimson \$12.00 \$100.00

Azalea hinodegiri 12.00 100.00

Pieris japonica 12.00 100.00

Azalea Louise Gable 20.00

ROOTED CUTTINGS

BEDDED OUTSIDE 1 YEAR

Azalea Hino-Crimson 15.00 125.00

Azalea hinodegiri 15.00 125.00

Buxus sempervirens 10.00 90.00

Hex crenata 10.00 90.00

Hex rotundifolia 12.00 100.00

Juniper, hibernica 10.00

Pachysandras 4.00 35.00

Taxus cuspidata 10.00 90.00

Thuja vevaeana 10.00

3-YEAR TRANSPLANTED SEEDLINGS

Thuja occidentalis 10.00 90.00

Picea pungens glauca 7.00 60.00

Picea (White Spruce) 6.00 50.00

Tsuga caroliniana 10.00

1-YEAR SEEDLINGS

Acer palmatum 4.00 35.00

Euonymus alatus compactus 5.00 40.00

Fagus sylvatica 7.00 65.00

Taxus capitata 5.00 40.00

Taxus capitata, transplants 6.00 50.00

2-YEAR SEEDLINGS

Douglas Fir 4.00 35.00

Hex crenata 4.00 35.00

Taxus capitata 5.00 40.00

Taxus capitata, transplants 10.00 90.00

Thuja orientalis 3.50 30.00

Syringa vulgaris 3.50 30.00

3-YEAR SEEDLINGS

Picea excelsa 3.50 30.00

Picea pungens glauca 4.00 35.00

Picea rubens, transplants 6.00 50.00

Picea (White Spruce) 3.50 30.00

Pinus densiflora 5.00 40.00

Pinus sylvestris 3.50 30.00

VAN DINE NURSERY

Berdan Ave. Freackness, Paterson, N. J.

CHINESE ELM, 100 at 1000 rate

9 to 12 ins. \$10.00 per 1000

12 to 18 ins. 20.00 per 1000

18 to 24 ins. 30.00 per 1000

SHRUBS AND TREES—Continued

MUST BE MOVED THIS MONTH

	Per 100
200 Philadelphia virginiana, 2 to 3 ft.	\$55.00
300 Euonymus europaeus, 2 to 3 ft.	40.00
350 Euonymus europaeus, 3 to 4 ft.	55.00
250 Red-leaved Barberry, 15 to 18 ins.	50.00
150 Green-leaved Barberry, 15 to 18 ins.	40.00
Every plant a specimen.	
300 European White Birch, 4-yr., good caliper; nice heads	125.00
2500 Sugar Maple, nursery-grown liners, 4 to 6 ft.	28.50
500 Sugar Maple, 6 to 8 ft., 3/4-in.	75.00
300 Sugar Maple, 6 to 8 ft., 1 1/4-in.	125.00
75 miles south.	
2000 Silver Maple, 1 1/2 to 4 ins.	2 acres Myrtle.
Take a look. Make offer.	
JOHN L. KOOLEN NURSERY	
2056 College Ave. S. E.	
Grand Rapids, Mich.	
Phone GL 2-7213	

JAPANESE RED MAPLE SEEDLINGS
ACER PALMATUM ATROPURPUREUM
 All seedlings dark red.
WELL-HARNESSED TRANSPLANTS FROM OPEN FIELD BEDS.

	Each	100 over
2-yr., 6 to 8 ins., unbranched	\$0.22	\$0.20
2-yr., 8 to 10 ins., lightly br., T.	.28	.25
2-yr., 10 to 12 ins., lightly br., T.	.38	.35
2-yr., 12 to 15 ins., lightly br., T.	.45	.42
SUITABLE FOR FIELD PLANTING		
2-yr., X, 6 to 8 ins., br., T.	.43	.40
2-yr., X, 8 to 10 ins., br., T.	.48	.45
2-yr., X, 10 to 12 ins., br., T.	.58	.55
Packed in sphagnum. Can ship until April 15.		
20 per cent deposit will reserve order, balance before delivery.		

HUBBS NURSERIES

Rt. 130 Riverton, N. J.

SURPLUS SHRUB LIST

Available for prompt shipment. Boxing extra at cost.

	Per 100
Philadelphia virginiana, 18 to 24 ins.	\$20.00
Regela Privet, 2 to 3 ft.	25.00
18 to 24 ins.	20.00
California Privet, heavy, 2 to 3 ft.	8.00
Snowberry, chenaulti, 3 to 4 ft.	22.00
2 to 3 ft.	15.00
Snowberry, vulgaris, 2 to 3 ft.	14.00
Spiraea foebeli, 2 to 3 ft.	25.00
18 to 24 ins.	20.00
Weigela Eva Rathke, 12 to 18 ins.	18.00
Barberry, red-leaved, 2-yr., 9 to 12 ins.	15.00

CONGDON'S WHOLESALE NURSERY

North Collins, N. Y.

SHADE TREES

	Per 10	Per 100
CRAI, RED SILVER		
5 to 6 ft.	\$15.00	\$135.00
4 to 5 ft.	12.00	110.00
ELM, AMERICAN		
1 1/2-in. caliper	33.00	300.00
1 1/4-in. caliper	22.00	200.00
8 to 10 ft.	16.50	150.00
6 to 8 ft.	11.00	100.00
5 to 6 ft.	7.00	65.00
4 to 5 ft.	5.50	50.00
3 to 4 ft.	3.00	25.00
6 to 8 ft.	10.00	90.00

PLUMFIELD NURSERIES, INC.

Fremont, Neb.

EVERGREENS AND SHRUBS

Finished landscape stock.

Cotoneaster divaricata,	
2 to 3 ft., B.&B. each	\$1.75
Cotoneaster divaricata,	
3 to 4 ft., B.&B. each	2.00
Cotoneaster zabeli, 2 to 3 ft., B.&B. each	2.00
Cotoneaster zabeli, 3 to 4 ft., B.&B. each	2.25
Arborvitae, globosa, 2 to 3 ft., B.&B.	2.25
Arborvitae, Berckmans' Golden,	
2 to 3 ft., B.&B.	3.50
Juniper, Irish, 2 to 4 ft., B.&B.	2.50
Stock ready for spring 1956 delivery.	

FLORAL GARDENS, EATON, O.

LINERS

Azalea mollis, 3-yr., br. 6 to 8 ins.	\$0.35
altaclearne, 3-yr., 4 to 6 ins., br.	.35
Clematis montana, 3-in. pots	.35
Daphne cneorum, rooted cuttings	.12
Daphne odora, 2-in. pots	.25
Gentiana acutula, 6 to 8-in. spread	1.00
Pieris japonica, C. T., 2-in. pots	.20
Viburnum burkwoodi, rooted cuttings	.15
burkwoodi, 3-in. pots	.35
Cash with order, please.	

FOUR STAR NURSERY

8215 238th St. W. Edmonds, Wash.

WEEPING WILLOWS

Salix niobe, 2-yr., staked plants.

	Per 100 rate	Per 1000 rate
4 to 5 ft., B.R.	\$0.45	\$0.35
5 to 6 ft., B.R.	.75	.55
6 to 8 ft., B.R.	1.00	.75

Ask for special quotations on B&B Willows.
BOULEVARD NURSERIES
Newport, R. I.

COTONEASTERS

Horizontalis, 2 1/2-in. pots, \$15.00 per 100;	
6-in. cans, \$1.00. Divaricata, 2 1/2-in. pots,	
\$15.00 per 100; 6-in. cans, \$1.00. Fracox,	
2 1/2-in. pots, \$20.00 per 100; 6-in. cans, \$1.50.	

BAIER LUSTGARTEN NURSERIES

Jericho Turnpike, Middle Island, L. I., N. Y.

Phone Yaphank 4-3444.

FLOWERING CRABS

40 varieties, best of the old and newer varieties. 1-yr. whips and branched. Also 3-yr., once transplanted, 6 to 8 ft. Descriptive booklet available.

Eley and Hoppa, 4 to 5 ft., 90c each, \$80.00 per 100; 5 to 6 ft., \$1.10 each, \$100.00 per 100.

THUNDERCLOUD PURPLE-LEAVED PLUM

5 to 6 ft., well bra., \$1.10 each, \$100.00 per 100; 6 to 8 ft., well bra., 1.25 each, 112.00 per 100; 6 to 8 ft., XX, well br. 1.35 each, 122.00 per 100.

SIMPSON ORCHARD CO.

U. S. 60 E. Vincennes, Ind.

EUONYMUS COLORATUS, 2-yr., field-grown, from pots, under irrigation and clipped; 12 to 15-in. spread, \$38.00 per 100; 12 to 15-in. spread, \$255.00 per 1000.

EUONYMUS MINIMUS, staked upright.

Each	
10 to 12 ins., B.&B.	\$1.65
12 to 15 ins., B.&B.	1.85
15 to 18 ins., B.&B.	2.25

WHITAM NURSERIES

Agency, Ia.

EVERGREENS AND SHRUBS

LARGE SIZE STOCK OUR SPECIALTY.

PHONE OR WRITE.

Phone Rock Hall 5693

BOB WHITE MEADOWS NURSERY

Rock Hall, Md.

FLOWERING CRAB GRAFTS

Calloused and ready to grow.

Eley and Hoppa grafts.

\$10.00 per 100, \$85.00 per 1000.

SIMS FRUIT & NURSERY FARMS

Route 3 Hannibal, Mo.

Phone 6156 J. I.

SHRUBS AND TREES

1000 Rhododendron hybrids, 2-yr., trans., 75 per cent red, grafted, \$1.25 each.
1000 Taxus hatfieldi, 12 to 15 ins., bushy.
1000 Taxus hatfieldi, 15 to 18 ins., bushy.
Several thousand liners. Ask for prices.

MARINUS VANDER POL NURSERYMAN

Fairhaven, Mass.

Euonymus alatus compactus, transplants.

For spring 1956. Bare root; sturdy plants.

12 to 15 ins., branched low; each \$0.65 per 100

15 to 18 ins., branched low; each .75 per 100

F.O.B. Northampton, Mass.

Free packing, if cash with order.

Twin Cedar Nursery, Williamsburg, Mass.

SURPLUS SEEDLINGS, NURSERY-GROWN

CHINESE ELM, well rooted;

8 to 12 ins., row-run \$1.00 per 100

MAHONIA aquifolium, exceptionally nice;

2 to 3 ins., row-run \$5.00 per 100

Free packing, cash with order.

MELLINGER'S, Box 247H, North Lima, O.

1-YR. SYRINGA FRENCH HYBRIDS

In 10 varieties.

\$20.00 per 100.

Cash with order earns free packing or one-fourth with order, rest C.O.D.

LITTLE MOUNTAIN VIEW NURSERIES

Rt. 84 Mentor, O.

500 GLEDITSIA TRIACANTHOS INERMIS

5 to 8 ft., twice transplanted.

500 ILEX GLABRA

18 to 30 ins., heavy, pruned, bushy plants.

Above items will be priced row run or graded.

BUCKLIN FRUIT FARM & NURSERIES

Phalanx, N. J.

Hardy Hibiscus (Malhows), giant blooms.

6 to 10 ins., mixed colors. Right size for

gallon cans; also smaller liners. Bird-of-

Paradise (Poinciana gilliesii). Bearded Irises

for landscaping. Write for prices.

Best Nursery, P. O. Box 267, Cleveland, Miss.

DARK AMERICAN ARBORVITAE

10 to 12 ft., \$15.00.

Hybrid Liban, 7 to 10 ft. tall, \$12.00 each.

F.O.B. our nursery.

THE PETER CASCIO NURSERY

2600 Albany Ave. West Hartford, Conn.

2 to 2 1/2 ins.	FAGUS SYLVATICA	\$20.00
2 1/2 to 3 ins.		25.00
3 to 3 1/2 ins.		30.00

THE PETER CASCIO NURSERY

2600 Albany Ave. West Hartford, Conn.

SHRUBS AND TREES

See our Classified ad in this issue under

LINING-OUT STOCK.

T. G. OWEN & SON, INC.

Columbus, Miss.

SHADE TREES

Carolina Poplars, 4 to 6 ft., 20c; 6 to 8 ft.,

40c; 8 to 10 ft., 50c; 10 to 12 ft., 75c.

BENTON COUNTY NURSERY CO., INC.

Rogers, Ark.

Colo. and Black Hills Spruce, 2 1/2 to 4 ft.;

Mugho Pine, 12 to 24 ins.; Mountain Ash, 3

to 5 ft.; American Ash, 1 1/4 to 2 1/2-in. cal.

Pequot Nurseries, Brainerd, Minn.

Dixie Brilliant Crape-Myrtle, red; 2 to 3

ft., \$6.00 per doz.

Planters Nursery, Greenville, Ga.

TRITOMAS

TRITOMA PFITZERI (Red Hot Poker)

No seedlings. True, all fall and summer

blooming. The exclamation point of the garden

100 strong plants, \$15.00; 250 strong

plants, \$30.00; 1000 strong plants, \$100.00

10,000 strong plants, \$900.00. Order now. Can

be shipped from today on.

JOHN M. ELZINGA

P. O. Box 142 Benton Harbor, Mich.

VEGETABLE PLANTS

READY NOW

WRITE FOR COMPLETE LIST

OF POPULAR VARIETIES

State inspected, carefully packed.

Cabbage, popular varieties \$1.95 per 2000

Red Acre Cabbage 3.00 per 1000

Onions, popular varieties 3.95 per 1000

Tomatoes, popular varieties 3.00 per 1000

Hybrid Tomatoes 4.75 per 1000

Peppers, hot 4.50 per 1000

Peppers, sweet 5.50 per 1000

Sweet Potato Porto Rico 4.25 per 1000

Sweet Potato Red Velvet 5.00 per 1000

All plants above are F.O.B. plant farm.

PLEASE NOTE: We will wrap the roots

of each bunch of plants (except Onions)

for only 50c per 1000 plants extra. We use

waterproof paper and damp sphagnum moss.

500 Cabbage plants, postpaid \$2.30

500 Onion plants, postpaid 1.50

500 Tomato plants, postpaid 5.00

500 Pepper plants, postpaid 3.30

500 Sweet Potato slips, postpaid 3.50

All guaranteed, fresh pulled, true-to-name.

W. G. FARRIER PLANT CO.

Box 555 Omaha, Tex.

WHOLESALE PRICE LIST, 1956

VEGETABLE PLANTS

Plant variety	Date ready	Per 1000
Cabbage	Now	\$2.00
Collard	Now	2.00
Onion	Now	1.50
Lettuce	Now	3.50
Broccoli	Now	3.50
Cauliflower	Now	5.50
Pepper	Apr. 15	4.00
Eggplant	Apr. 15	4.00
Tomato	Apr. 15	3.50
Hybrid Tomato	Apr. 15	5.50
Vine Sweet Potato	Apr. 15	5.00
Bunch Sweet Potato	Apr. 15	8.25
All above prices F.O.B. Albany. Leading		
varieties. Write for catalog. Large, fresh		
plants. Prompt shipment. Write or wire.		

PIEDMONT PLANT CO.

Dept. 905 Albany, Ga.

VEGETABLE ROOTS

RHUBARB

Chipman's Canadian Red Rhubarb,

No. 1 divisions, \$35.00 per 100,

25 divisions at the 100 rate.

VAN DE MOORTELL

PERENNIAL GARDENS

7250 18 1/2 Mile Rd. Utica, Mich.

Turn Stock into Dollars

by Listing It in the Classified Ads

of the American Nurseryman

WANTED

WANTED

Pyramidal Arborvitae

200, 5 to 6 ft., \$5.00 each.

Heavy, grown 3x4 ft.

Will trade for lining-out stock.

VALLEY GARDENS, INC.

Accord, N. Y.

WANTED

Will trade 5000 Juniperus Hetzi, rooted

cuttings. What have you? Prefer Yews.

Will be ready May 1.

ENNIS FLORISTS, STEUBENVILLE, O.

Wanted—Best Black Walnuts and Inter-

laken seedless Grape vines and cuttings.

The Specialty Nursery, Tonasket, Wash.

YOU CAN SELL YOUR STOCK
QUICKLY AND WITH LESS EXPENSE
BY ADVERTISING IN
THE CLASSIFIED COLUMNS OF
THE AMERICAN NURSERYMAN

SUPPLIES AND SERVICES

BURLAP

NURSERY BURLAP AND SQUARES
We can give you prompt delivery on either new or used burlap and burlap squares for baling. All sizes and constructions available. We also stock open mesh bags for bulb shipping and open mesh squares. Nurserymen in the North Central States will find the freight costs from our plant much to their advantage. Write us for our quotations on your needs. **SAM MILLER BAG CO.**
861-71 E. Hennepin Ave. Ph. Federal 3-7107
Minneapolis 14, Minn.

NEW BURLAP

In bolts of 100 to 125 yards. Protect seeded lawns and slopes from washouts with lightweight 57-in. burlap erosion cloth. Is also an excellent wrapping material for all nursery work. 18½¢ per yard net. F.O.B. New York. Minimum order 1 bolt. Orders of 3 bolts or more freight prepaid. Heavyweight protection burlap, widths 36 to 72 ins. also available.
LEWIS INTERNATIONAL CO.
666 Clinton Ave. Newark 8, N. J.

Small Ads Do Great Things in the American Nurseryman Classified Section.

FERTILIZERS

SOLUBLE FERTILIZERS
PETERS SPECIAL, 20-20-20, general purpose feed.
PETERS SPECIAL, 21-7-7, chelate iron. Azalea neutral.
PETERS SPECIAL, 21-7-7, chelate iron. Azalea acid.
\$6.50 per 25-lb. bag, \$22.00 per 100 lbs.
ROBERT B. PETERS CO.
739 N. 7th St. Allentown, Pa.

Turn Stock into Dollars by Listing It in the Classified Ads of the American Nurseryman.

FLATS

MINNESOTA WHITE CEDAR FLATS	
Order by No.	Per 100
No. 1, 14x20x2 1/2	320
No. 2, 14x20x3	290
No. 3, 12x16x2 1/2	260
No. 4, 12x16x3	275
No. 5, 14x16x2 1/2	275
No. 6, 14x16x3	290
No. 7, 15x22x2 1/2	380
No. 8, 15x22x3	425
No. 9, 11 1/4x22x2 1/2	320
No. 10, 11 1/4x22x3	400
No. 11, 14x16x5	450
No. 12, 5x11x5	160
No. 13, 5x16x5	215
Plant boxes, 5x11x2 1/2	45

All other sizes quoted on request.
5 per cent discount on order of 1000 or more.

The above measurements are inside. Bottoms and sides of cedar flats are 1/2-in. thick; ends are 3/4-in. Plant boxes are thinner.

All material surfaced on one side.
Your name and address printed up to 3 lines in black ink, on one or both end pieces at the following rates: Set-up charge, \$1.00, plus 1/4¢ per piece for the first 1000 ends, 1/4¢ per end thereafter. Shipped knocked-down in units of 25.

All shipments by truck unless otherwise ordered. F.O.B. Cook, Minn. Attach check.
H. C. HILL & SONS, Cook, Minn.

PRESERVATIVE TREATED FLATS
Made from a good grade of southern Pine, dipped in "Rot Not" wood preserver for longer life.

Standard specifications, inside measurements:
16x12x2 1/2 \$21.16
16x14x3 28.10
20x14x2 27.63

Plant boxes, 15x5x5, \$20.00. Sides and bottoms of masonite. All prices per 100. Other sizes quoted on request. Priced F.O.B. Birmingham, Ala. We are manufacturers, not jobbers. Our quality guaranteed. Prompt shipment on any quantity. Mixed shipments of flats, plant boxes and spray boards. Write for our price list on these items. Attach check.

HIGHTOWER BOX & TANK CO.
P. O. Box 1449 Birmingham, Ala.

REDWOOD FLATS, K. D.
Finest stock obtainable. Guaranteed all clear heart. Size 20x15x3 ins. inside measure. \$38.00 per 100.

1x1-in. Cypress stakes, pointed.
50 pcs. to bundle, 4 ft., \$3.50 per bdl.
50 pcs. to bundle, 6 ft., \$4.50 per bdl.
50 pcs. to bundle, 8 ft., \$5.50 per bdl.
Ship same day. Cash with order, please.
YOHO & HOOKER, Youngstown 2, O.

HUMUS

30,000 YDS. HIGH-GRADE HUMUS

86 per cent organic, 6.5 pH, 15,000 accessible yds. mounded. Give-away price, \$1.00 per yd. or take all for \$20,000.00. Allow 2 years to remove. Looking for quick action.
Phone Great Meadows 7-3618.

H. MONETTI

Alphano Road, Great Meadows, N. J.

LABELS

DAHLIA OR TREE LABELS

Priced per 1000
Plain Painted
3 1/2 x 5 ins., notched (not wired) \$2.50
3 1/2 x 5 ins., wired (copper) 3.30

POT LABELS

4x 1/2 ins. (cartons 1000 each) 3.30
5x 1/2 ins. (cartons 1000 each) 3.60
6x 1/2 ins. (cartons 1000 each) 3.90
8x 1/2 ins. (cartons 500 each) 6.00
10x 1/2 ins. (cartons 500 each) 7.00

GARDEN STAKES

Price per carton
8x 1/2 ins. (cartons 250 each) 2.50
10x 1/2 ins. (cartons 250 each) 2.75
12x 1/2 ins. (cartons 100 each) 1.75

EVERMARK PENCILS

The original label marker. 1 doz. 7-in. pencils per box, \$1.25.

Our labels are perfectly white and smooth on both sides and are pronounced by growers the best and most economical.

"We ship the same day."

YOHO & HOOKER

Youngstown 2, O.

WOOD LABELS

Finest grade. Smooth White Pine.

POT LABELS

Priced per 1000
Plain Painted
4x 1/2 ins. (1000 per carton) \$3.00
5x 1/2 ins. (1000 per carton) 3.20
6x 1/2 ins. (1000 per carton) 3.50
8x 1/2 ins. (500 per carton) 5.15
10x 1/2 ins. (500 per carton) 6.15
12x 1/2 ins. (500 per carton) 7.15

GARDEN LABELS

8x 1/2 ins. (250 per carton) 7.50
10x 1/2 ins. (250 per carton) 8.50
12x 1/2 ins. (100 per carton) 14.50

TREE LABELS

3 1/2 x 5 ins., copper-wired 3.55
CELLULOSE LABELS

3x 1/2 ins., copper-wired, per box of 100 \$1.75

WEATHERPROOF PENCILS

Each, 10¢; doz., \$1.00; gross, \$11.00.

AMERICAN FLORIST SUPPLY CO.

1335 W. Randolph St. Chicago 7, Ill.

ORCHID SUPPLIES

FULEX FUMIGATORS, safe, efficient, proven. Parathion for red spiders, thrips and aphids. Can not be sent parcel post.

1000 and 2000 cu. ft. Each, 65¢; 12, \$7.00;

24, \$10.50.

5000 cu. ft. Each, 75¢; 12, \$8.50; 24, \$13.50.

FULEX APHIDOK FUMIGATORS, kills white adult flies and aphids. Non-poisonous.

1000 to 2000 cu. ft. Each, 60¢; 12, \$6.50;

24, \$10.00.

5000 cu. ft. Each, 70¢; 12, \$8.00; 24, \$13.00.

FULEX SPIDER, MITE FUMIGATORS, nonpoisonous. Contains Aramite. Kills two-spotted mites and red spiders. Same price as Parathion Fulex Fumigators.

Priced F.O.B. Subject to change without notice.

WRIGHTWOOD FLORAL CO., INC.

2407 N Main St. Houston 9, Tex.

PEAT

AL-PAR PEAT

Processed for lawns, flowers and shrubs. 3 bu., \$3.55; 2 bu., \$1.87; 1 pk., 80¢; 1/2 pk., 52¢. Dealers wanted; write for prices.
W. H. ALDRICH & SONS, OVID, MICH.

PEAT MOSS

VAZACO BRAND

PEAT MOSS

Finest horticultural German peat moss.

Packed in 7 1/2 cubic foot bales,

8 slats, 4 wires, brand new burlap.

makes VAZACO peat moss your best buy.

Ask now for prices.

VAN ZANTEN & CO.

315 East Chelten Ave.

Philadelphia 44, Pa.

Phone Victor 8-1405-6

EXTRA! Also ask for 1956 prices on Holland bulbs. We guarantee highest quality and lowest price.

HOLLAND PEAT MOSS
"BRODLEAF" quality. Just arrived.
Standard burlapped bales,
\$3.65 each; 10, \$34.25.

Priced F.O.B. Houston.

WRIGHTWOOD FLORAL CO., INC.

2407 N. Main St. Houston 9, Tex.

Philadelphia importer specializing in good quality, 7 1/2 cu. ft. bales, offers lowest possible prices. Do not be disappointed this year; get price and delivery by contacting Garden Friend Peat Moss, 230 N. 3rd St., Philadelphia 5, Pa. Phone Market 7-1642.

PLANT TIES

THE NEW FADE-PROOF

QWIK-TIES

Now made of colorfast plastic for the florist trade.

Semi-invisible, economical, easy to use.

Packed in cartons of 10,000 Per carton

4-in. \$10.00

8-in. 18.00

12-in. 27.00

Postage paid when cash with order.

Carton lots only!

McHUTCHISON & CO.

95-A Chambers St. New York 7, N. Y.

PLANT TUBS

UTILITY PLANT TUBS

Made from New England White Pine

F.O.B. Chicago

New Hampshire Per 100 White

Size 7 x 7 ins. \$ 77.50 \$ 85.00 \$ 85.00 \$ 92.50

8 x 8 ins. 72.50 80.00 80.00 87.50

8 1/2 x 6 1/2 ins. 75.00 82.50 82.50 90.00

8 x 8 ins. 80.00 87.50 87.50 95.00

9 x 6 ins. 77.50 85.00 85.00 92.50

9 x 9 ins. 85.00 92.50 92.50 102.50

10 1/2 x 6 1/2 ins. 85.00 92.50 92.50 102.50

10 x 9 ins. 92.50 100.00 107.50 115.00

11 x 7 ins. 85.00 92.50 100.00 107.50

12 x 7 ins. 92.50 100.00 107.50 115.00

12 x 9 ins. 110.00 117.50 130.00 137.50

12 x 11 ins. 145.00 152.50 165.00 172.50

14 x 8 ins. 150.00 157.50 170.00 177.50

14 x 13 ins. 175.00 182.50 195.00 202.50

ALEC HENDERSON, INC.

1305 W. Randolph St. Chicago 7, Ill.

Phone: Monroe 6-3082

PLASTIC FILM

POLYETHYLENE FILM

All prices per sq. ft.

Quantity discount, .0015 thick, \$0.01; .002,

\$0.012; .003, \$0.02; .004, \$0.025 F.O.B. Cincinnati, O.

ROUGH BROS.

Dept. AN, 4227 Spring Grove Ave.

Cincinnati 23, O.

RAFFIA

FORGET-ME-NOT RAFFIA

Eastcoat Madagascar XXX natural.

Westcoat Madagascar AAA natural.

Colored Raffia (20 colors).

Highest quality. Lowest prices.

Write for quotation.

THE JOSEPH M. STERN CO.

1968 East 66th St. Cleveland 3, O.

SPHAGNUM MOSS

Fresh, clean sphagnum, large standard burlap bales, \$1.40 each. Write for prices on wire bound, burlap bales, in truck or cartons.

Pure Sphagnum Moss Co., City Point, Wis.

Long-fibered sphagnum moss, also ground moss. Price us on truckloads delivered.

Warrens Moss Co., Warrens, Wis.

STAKES

BAMBOO CANE STAKES

Dyed green, pencil thickness.

Packed 2000 per bale.

Per 1000 Per bale

1 1/2 ft. \$ 3.50 \$ 8.00

2 ft. 4.50 10.00

2 1/2 ft. 5.50 10.00

3 ft. 7.00 13.00

3 1/2 ft. 8.50 16.00

4 ft. 9.50 18.00

5 ft. 12.50 24.00

SPLIT BAMBOO, DYED GREEN

Per 1000 Per bale (5000)

12 ins. \$2.50 \$10.00

15 ins. 3.50 15.00

18 ins. 4.50 20.00

24 ins. 5.50 25.00

F.O.B. CHICAGO

Quantity discounts: 10 bales up, less 5 per cent; 25 bales up, less 10 per cent.

ALEC HENDERSON, INC.

1305 W. Randolph St. Chicago 7, Ill.

STAKES—Continued

BAMBOO STAKES, DOMESTIC DIRECT FROM THE PRODUCER			
PENCIL THICKNESS		Per 1000	
1 1/4 ft., green	.....	\$3.60	
2 ft., green	.....	4.80	
3 ft., green	.....	7.20	
MEDIUM HEAVY, 3/4 to 1 1/2-in.			
1 1/2 ft., green or natural	.....	2.85	\$ 5.70
2 ft., green or natural	.....	3.75	7.50
2 1/2 ft., green or natural	.....	4.75	9.50
3 ft., green or natural	.....	5.70	11.40
3 1/2 ft., green or natural	.....	6.65	13.30
4 ft., green or natural	.....	7.60	15.20
5 ft., green or natural	.....	9.50	19.00
6 ft., green or natural	.....	11.40	22.80
7 ft., green or natural	.....	13.30	26.60
HEAVY			
Per 100	1/2-3/4	3/4-1	1-1 1/2
4 ft., green or natural	.....\$2.88	\$3.44	\$4.24
5 ft., green or natural	.....3.60	4.30	5.30
6 ft., green or natural	.....4.32	5.16	6.36
7 ft., green or natural	.....5.04	6.02	7.42
8 ft., green or natural	.....5.76	6.88	8.48
9 ft., green or natural	.....7.74	9.54	
10 ft., green or natural	.....	10.60	
12 ft., green or natural	.....	12.72	
Approx. average thickness at bottom end			
A. C. PATTERSON, CENTERTOWN, KY.			

NBS

NURSERY BAMBOO STAKES

These imported stakes are specially selected for nursery use. All are bottom or butt cuts for minimum taper, cut closely to a joint to reduce splitting. These are the finest quality available.

	Per bale
4 ft., 1/2 to 3/4-in. dia., 500 per bale	...\$22.50
5 ft., 3/4 to 1-in. dia., 250 per bale	...17.50
6 ft., 1 to 1 1/4-in. dia., 200 per bale	...17.50
7 ft., 1 1/4 to 1 1/2-in. dia., 150 per bale	...19.00
8 ft., 1 1/2 to 1 3/4-in. dia., 100 per bale	...16.00

Less these generous quantity discounts:
5 bales up, less 10 per cent; 10 bales up, less 15 per cent; 25 bales up, less 20 per cent. Bale lots only.

F.O.B. New York. Immediate shipment.
Pencil thick bamboo stakes also available. Write for prices.

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50 Pieces to Bundle

1x1-in.—3 ft., pointed	\$3.00 per bundle
1x1-in.—4 ft., pointed	3.50 per bundle
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These stakes are made of cypress and redwood; are good, strong stakes and will give long service. "A little better than seems necessary."

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No. 1 grade, dried green and pointed.

(F.O.B. California)	Per 100	Per 1000
1/2 x 1/2 x 2 ft.	\$2.15 \$1.95 per 100
1/2 x 1/2 x 3 ft.	2.50 2.35 per 100
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Free catalog of other REDWOOD products.

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STAKES, GALVANIZED HARD STEEL
FOR GREENHOUSES AND NURSERIES.
BENCH WIRE, galvanized.

STAKE FASTENERS.
Prices and samples sent on request.
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Suggestions for nurserymen and their employees:

NEW DESIGNS FOR SMALL
PROPERTIES,
by M. E. Bottomley, \$4.00.

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SHRUBS,
by Alfred Rehder, \$12.50.

GREENHOUSES: THEIR CONSTRUCTION
AND EQUIPMENT,
by W. J. Wright, \$3.00.

HANDBOOK OF FERTILIZERS,
by A. F. Gustafson, \$2.50.

STANDARD CYCLOPEDIA
OF HORTICULTURE,
3-Volume Set,
by L. H. Bailey, \$52.00.

SOILS AND FERTILIZERS FOR
GREENHOUSE AND GARDEN,
by Alex Laurie and D. C. Kiplinger, \$2.50.

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by A. C. Hottes, \$4.00.

These books and others on horticultural subjects may be obtained, postpaid, at the publishers' prices indicated, from

AMERICAN NURSERYMAN
343 South Dearborn Chicago 4, Ill.

Michigan Group
Forms, Hears Talks

The Upper Peninsula nursery and landscape conference met March 16, at the Lee and Carey hall, Northern Michigan College, Marquette, Mich., with an attendance of 25, culminating efforts the past year to hold a conference of nurserymen, landscape gardeners, landscape architects and landscape caretakers of parks, cemeteries, golf grounds, private estates and highways of the Upper Peninsula, for the mutual benefit of all concerned, on the growing of plants and their care and problems in the Upper Peninsula.

A great deal of interest was shown at the meeting, and it was decided to organize as the Upper Peninsula Nursery and Landscape Association and to meet twice a year.

Officers of the new organization were elected as follows: Herman Berg, Berg Nursery, Iron Mountain, president; Jack Liberty, superintendent, Marquette cemetery, Marquette, vice-president, and Thomas Tunney, Pine Mountain Nursery, Iron Mountain, secretary-treasurer.

It was decided that the new officers and Floyd Hicks, horticulture extension department of Michigan State University, East Lansing, choose directors to represent the various groups. A summer meeting will probably be held at the Chatham experiment station in the latter part of July.

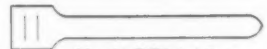
Herman Berg presided as chairman, opening the meeting with a brief discussion of the purpose of the meeting.

Chemical Weed Control

Floyd W. Hicks, district horticulture extension agent of Michigan State University, opened the day's program with a talk on chemical weed control. He discussed the various types of chemical herbicides and rates to use on quack grass, chickweed, sorrel, annual and perennial weeds, woody plants, etc. Mr. Hicks also showed some colored slides on some of the weed control measures being carried on at the Chatham experiment station.

Joseph Cox, extension specialist in landscape architecture, Michigan State University, discussed landscape materials, lawns and their care, illustrating the talk with colored slides. Following are some of his remarks:

Mr. Cox suggested Japanese spurge for shady places, especially

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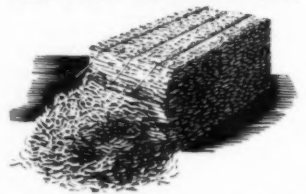
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KNIFE.

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NURSERY LATH

4x50-ft. rolls, red, green or plain;
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Penta-treated and securely wired together to provide either 50 or 70 per cent shade.

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where grass could not be grown, and fall bulbs to be planted in between the spurge for spring color. Plantain lily also grows well in shady places. The prostrate juniper is good for sunny conditions and on light soil especially in sandy areas. Among evergreens the yews are desirable for both shade and sun. Delphinium and lupines are colorful for perennial flower gardens. Tulips, narcissi and hyacinths are especially welcome in the spring after a long winter.

Red Osier Dogwood

Red osier dogwood shows up well for winter color in the garden. The grafted lilacs are highly recommended for beauty and fragrance and because they do not spread like the common lilacs. Froebel spiraea fits in well with the new ranch-type homes, with its dwarf size, flowers and fall color.

The mountain ash makes a colorful tree for the lawn. White birch clumps are popular. The white birch is a difficult tree to transplant, but if moved when buds are beginning to open in the spring, transplanting will be more successful. Thornless honey locust and Juneberry make desirable lawn trees. The Juneberry, or shad-blow, is of year-round interest, having flowers, foliage, fruit and good branching.

The rugosa roses are the hardest type of roses and need no winter protection. They have beautiful flowers and later large red hips which are colorful and good food for the birds. Portulacas, petunias and zinnias are colorful annuals for the flower garden.

Mr. Cox suggested good drainage for lawns, from four to six inches of good topsoil for a new lawn and the proper grass for sun and shade. He especially advised keeping the new seeding moist at all times until the lawn is established. Cemeteries, golf courses and parks need care and good landscaping. Natural views in the vicinity should be utilized. Plants should be protected from public use.

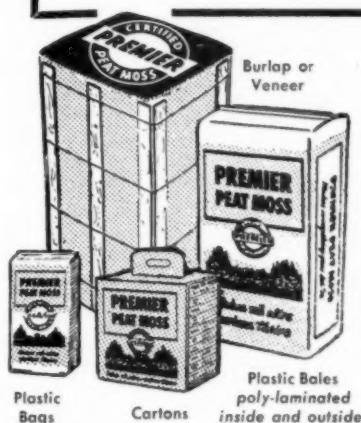
Glenn Gregg, regional supervisor, parks and recreation, Michigan department of conservation, gave an interesting talk on trees and shrubs of the Upper Peninsula as used in the state parks. Mr. Gregg emphasized that landscaping and care of the state parks were somewhat different from the average home or city landscaping, since park plantings should be as naturalistic as possible and also require less care—in other words, the plants are a great deal on their own.

Upright and permanent trees are preferable in the state parks to allow

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SHRUB-GARD

An invention that protects your shrubbery from the menace of destructive corrosive action caused by dogs. Makes the dog's visit so uncomfortable that he keeps away, yet it is so constructed that it will not harm the dog. The SHRUB-GARD is a unit of steel spring wires that are flexible and will not tear clothing of passers-by. Each SHRUB-GARD has three prongs and covers approximately two and one half lineal feet. Harmless to dogs or humans. Packed one dozen to a carton, weight 2 lbs.

Retail price **\$3.75** per dozen.
Write for Discounts

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Display: \$4.00 per inch, each insertion.

Lines: 35¢ line; minimum order **\$3.50**.

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Wants mature and intelligent person with executive ability to assume position of general manager of our entire operation excluding the sales division. Good farming and production knowledge is essential. This position is one of great responsibility and offers many benefits as well as one of the highest salaries in the industry. Contact W. C. Grullemans, Mentor, O.

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If you have experience, want to get ahead, this is your opportunity.

We offer you a permanent, profitable position with world's largest producers of container-grown ornamentals. Our fast growth means fast advancement for you. Pleasant working conditions, security, many extra benefits. Located in beautiful citrus area, 20 miles from Los Angeles. Starting salary \$325 per month. Send your qualifications to:

MONROVIA NURSERY CO.
P. O. Box Q
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HELP WANTED

Lifetime grower-gardener to take permanent charge of plants and plantings on small nursery and garden project and be generally handy. Opportunity for experienced man looking toward semiretirement. Moderate salary plus financial share in the proceeds. Ample assistance on place.

Farm country locality in Bucks county, Pennsylvania. Attractive cottage, modernly equipped, all conveniences. Thorough knowledge and proven ability in all branches are absolute requisites.

Please state age, family size; name recent employers; describe experience fully, and indicate how soon available after April 1. Write to Box 279, care of the American Nurseryman.

HELP WANTED

We are one of Holland's leading exporters to the U. S. of high-quality plant material. We are also growers. Several territories are open and on a commission basis. Line may be carried on the side or part time. State experiences and references. Write Box 283, care of American Nurseryman.

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LANDSCAPE SALESMAN

We have an unusual opportunity for man qualified in landscape contracting and nursery work. Highly paid position with one of the oldest, largest nurseries in Philadelphia section. State full qualifications. Territory and earnings unlimited.

LANDSCAPE FOREMAN

One of the oldest and largest nurseries and landscape contracting firms in Philadelphia has opening for qualified man. A highly paid, permanent position with bonus. Please state experience, age and full qualifications.

AMERICAN FORESTRY SERVICE CO.
Lancaster Pike about ½ mi. above city line
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Dutch firm, exporters and nurserymen with established following in the U. S. has several territories open. We carry a line of high-quality nursery stock. Commission basis. Replies are kept strictly confidential. Write Box 284, care of American Nurseryman.

HELP WANTED

PROPAGATOR

Wholesale nursery near midwest area needs experienced propagator to take complete charge of propagation in nursery and greenhouse. Good facilities and nice home for family. Give references. Write Box 280, care of American Nurseryman.

HELP WANTED

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Perennial Gardens and Garden Store. Approximately two acres under cultivation, situated on highway in heart of a beautiful city in the northwest. Serving large city and suburban territory. Down payment of \$10,000 will handle. For details write Box 285, care of American Nurseryman.

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PARTNERSHIP BASIS

Horticultural college graduate with 16 years' experience in propagating, selling plants and managing a wholesale nursery business wants to help expand a nursery business on a partnership basis.

If you are thinking of retiring in the near future, this is your opportunity to sell without sacrificing your present interest in the business.

Write to Box 286, care of American Nurseryman.

HELP WANTED PROPAGATOR

Large wholesale nursery near Memphis, Tenn., needs experienced propagator to take complete charge of propagation of coniferous and broad-leaved evergreens. Must be capable of handling help and getting results. Good facilities and nice home on premises available. Give references.

CARTWRIGHT NURSERIES
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Nurseryman and propagator with 6 years' experience in Germany and Holland. Also Canadian sales experience. Write to Box 278, care of American Nurseryman.

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Used complete greenhouses. Used greenhouse materials, glass, pipe, valves, etc. Greenhouses bought for wrecking.

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FOR SALE

Hi-Clearance Grand Haven, 8-h.p., 4-wheel tractor with cultivator, 32-in. clearance. Three speeds forward and one in reverse. Used two years. Cost \$750 when new; will sell for \$300. Makes excellent spray rig.

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HELP WANTED — Salesmen, dealers, agents. Make extra money. Demonstrate and take orders for new, proved, nationally advertised Gro-Green liquid fertilizer and nitrogen nutrients. Full or part time. Samples and demonstrating outfit furnished free. **CAMPBELL CO., Rochelle 93, Ill.**

FOR SALE—Used 50-lb. lard pails with handles, not cleaned out, \$65.00 per 1000 F.O.B. Beulah, Mich. Can be shipped by rail only. Pails nested, weight 2½ lbs. each. For freight rates see your local agent. Lids available \$10.00 per 1000. Samples on request. **PET-RITZ FOODS, Beulah, Mich.**

FOR SALE—Used 30-lb. tins, \$50.00 per 1000 in carload lots, F.O.B. Beulah, Mich. Car average 5000-tin capacity. Cans cleaned before loading. For freight rates see your local agent. Lids available at \$15.00 per 1000. Samples on request. **PET-RITZ FOODS, Beulah, Mich.**

more room for picnicking and recreation. Little pruning of evergreens is done, except where necessary. Nursery-grown stock for planting is preferred to native stock because nursery-grown stock has been transplanted and has a much better root system for survival.

State Park Plantings

Plantings are made according to natural surroundings. The following trees are mostly used: Hard maple, native elms, green and white ash, red oak, some basswood, mountain ash, and yellow and white birch. The white birch is the best and prettiest of trees, but presents a difficult problem in parks, because the public likes to peel the white birch bark for souvenirs.

Of the evergreens, the state parks are planted with red and white pines, white spruce, balsam, white cedar and hemlock. Balsam is found to be more difficult to move. White cedar is a favorite food of deer, and deer sometimes present a serious problem.

The Upper Peninsula is fortunate in not having too many tree diseases. The Dutch elm and oak wilt diseases have not yet come into the area, and it is hoped they may be kept out. White-pine blister rust is the most serious tree disease in the Upper Peninsula. The area from Humboldt to Alberta and near Palmer are the

THE *Lawnaire*

NEW SOIL-AIRE PRODUCTS



A new pull-type aerating and cultivating machine that can be attached to any 2 h.p. or up garden tractor. Will cover an acre an hour and can be adjusted 1-2-3 inches in depth. Gets air, moisture and fertilizer down to the roots.

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A self-transporting, cultivating, renovating and aerating machine for Ford-Ferguson, International 300 and other hydraulic lift tractors.

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Property consists of about 35 acres of level, open fields under cultivation, seeded to winter rye, free of rocks and not subject to spring flooding; 10 acres of good gravel with pit already open, and remaining area in cutover woodland with young growth of hemlock.

Located at Hudson, New Hampshire, three miles over the Massachusetts line, off Rt. 3A.

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Phone: Clearwater 9-8281

FOR SALE

Retail nursery, complete with stock, equipment and 40 acres of land. Nursery has two houses with electricity and running water, cold storage cellar, office and parking shed, small coldframe, irrigation system with private lake and three other small buildings. Nursery stock consists mostly of dwarf evergreens of various sizes. Wholesale value of nursery stock is \$18,500.

Nursery has a very good local and landscape trade. Located in south central Minnesota. Immediate possession of nursery can be had for only \$25,000. Reply to Box 282, care of American Nurseryman.

The HUMIDOMIST SYSTEM for INTERMITTENT MISTING

has proved its merits during three years of profitable operation in propagating and plant growth. Small capacity misting nozzles, under full automatic electric control, assure rapid development and also economy in water and labor.



Type T-16 twin discharge nozzles cover a bench area about 2x15 ft. \$2.00. Type A-6 nozzles have discharge rate of six quarts per hour. The small orifice is self-cleaning. \$4.00.

Adjustable interval timers operate on cycles of 1, 10, 30 and 60 minutes. The misting period is easily adjusted during the complete cycle. \$17.50.

Electric Day-Nite clock permits misting during daylight hours only. \$12.50.

Electric valves with strainers, 3/8-in., \$20.50; 1/2-in., \$28.50; 3/4-in., \$44.00; 1-in., \$39.50.

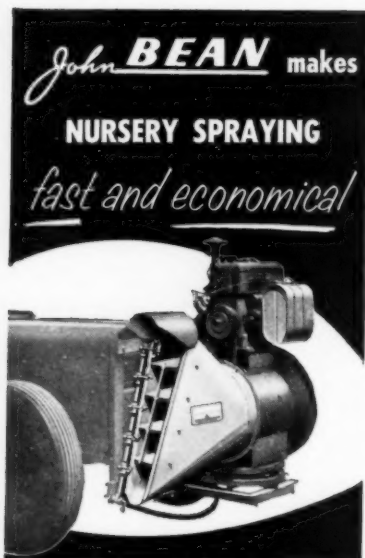
A plan of installation and equipment required will be prepared if you will send us a sketch with dimensions of your greenhouse and benches, also water pressure available. Timers and valves for 115 volts, 60 cycles. Prices F.O.B. Rochester. Add 2% extra for postage west of the Mississippi River.

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THE FRIENDLY EVERGREENS, by L. L. Kumlien. Planting propagation, culture, digging and transplanting. 237 p. 500 illus., 82 in color. **\$10.00**, postpaid. American Nurseryman, 343 S. Dearborn St., Chicago 4, Ill.



NEW John BEAN AIRCROP "8" ATTACHMENT

sprays your nursery stock in strips 30 to 40 ft. wide. Big air volume blower unit gives uniform penetration and coverage of all parts of every plant, shrub or tree. You'll profit from savings in time, labor and spray materials. For use on most existing high pressure sprayers.

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NEW John BEAN HI-CROP SPRAYER

sprays low as well as high nursery stock (up to 6 ft.) with boom height controlled from the driver's seat. High pressure pump handles concentrate or dilute spray materials. Ample power and traction to do a fast, labor saving job. No tractor required.

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for every purpose*



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Div. of Food Machinery and Chemical Corp.

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areas with the most serious occurrence of blister rust. Spruce gall is serious in places. Maple fusarium wilt has affected hard maples to some extent.

Insects are the greatest problem. Spruce budworm, especially in the Keweenaw peninsula, has been doing some damage. The larch sawfly is appearing again. Years ago the tamaracks were nearly lost because of this fly. Tent caterpillars are present in certain areas, but do not present too serious a problem, as the leaves affected usually come out again. The European pine-shoot moth, on red pine especially, is troublesome. Aphis and scale insects are usually present to some extent, but are not too serious a problem.

Shrubs are usually used for border and entrance plantings. Red osier dogwood, viburnum, sumac, shadblow, wild rose and ninebark are useful for such plantings. Cedars, hemlocks, native yew, white birch and spreading juniper are used mostly for foundation plantings around buildings.

George Bishop, secretary and general manager of the Upper Peninsula development bureau, welcomed the new organization and gave a history of the Upper Peninsula from the days of lumbering, mining, manufacturing and early agriculture up to the present time. Mr. Bishop has been with the development bureau since 1921 and has seen a number of changes take place. He has high hopes for the future of the peninsula, especially for tourist and recreational facilities. A great interest is being taken in future development with the coming of the new straits bridge in 1957 and the development of the St. Lawrence seaway. Interest is also being shown in developing new industries and agriculture. The opportunities to keep the Upper Peninsula beautiful and to further the development of the nursery and landscaping industries are offered the new nursery and landscape organization.

Climate Factors

Herman Berg summarized his experience as a landscape nurseryman for the past 20 years. He spoke of some of the difficulties in getting started in this north woods country, where the woods have been the greatest competitor for the customer, as so many persons have been accustomed to bring home plant material from the woods and have not used good judgment in material and planting. However, times are changing, and the customer is beginning to



FOG-MIST NOZZLE

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**PRECISE PERFORMANCE
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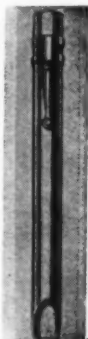
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550-B	.060 in.	12 ft. .3
550-C	.080 in.	18 ft. .7

Price, \$2.95 each, postpaid. One dozen, \$2.36 each. Please send check or money order. Guaranteed. 3% tax in Florida.

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POCKET MICROSCOPE

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loss each year in plant and fruit production caused by insect and plant diseases.

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YOU AND YOUR HELPERS should have a pocket microscope ready for instant use in the study of scales, red spider, mites, insects and fungi, in fields, beds or greenhouses.

ORDER NOW—BE SURE.
Find your plant enemies.
A FINE GIFT FOR A FRIEND
20 power, \$3.50 (3 for \$9.00)
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Postpaid. No C.O.D. Please.
Money-back guarantee.

VAN KLEECK'S
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SAWDUST MAKES GOOD FERTILIZER

You can apply 15 tons of sawdust per acre to build rich topsoil rapidly, and greatly increase nitrogen level, if you use the ActivO process. Cheaper, more permanent and better soil condition than with chemical fertilizer. No compost heap making. Apply now or any time. Rush post card for free bulletin, "How to Turn Sawdust into Gold."

Buy ActivO thru jobbers. Retail packages at \$1.00 to \$29.95, and bulk. Good nursery trial size for sawdust-fertilizer is \$29.95 . . . enough for 1½ acres.

The ActivO Process
BENSON-MACLEAN
BRIDGETON 2, IND.

WEEDER GOSLINGS

Save hand labor costs in weeding nursery plantings and do a better job. Day-old and started "Field Ready" weeder goslings delivered anywhere. Send for free illustrated folder.

HEART OF MISSOURI POULTRY FARM
Box 237N COLUMBIA, MO.

appreciate good nursery material and landscaping. Mr. Berg mentioned that the Upper Peninsula is fortunate in usually having cool summers and sufficient rainfall to develop good growth in nursery plants. The plants must be hardy to withstand the cold winters. The future looks encouraging for the nurseries of the area to develop hardy plants for the wholesale and retail trade.

The final part of the program was a panel discussion on "The Problems that Bothered Me Last Year." The panel was composed of Thomas Blum, Iron Mountain—lawns and general landscaping; Jack Liberty, superintendent, Marquette cemetery; Marquette — cemetery lawns; Thomas Tunney, Pine Mountain Nursery, Iron Mountain — nursery and landscaping, and Herman Berg, moderator. Many questions were asked of the panel, and an interesting discussion was held. Everyone present agreed that the program was well worthwhile. H. B.

OBITUARY

Thomas McMeekin, Sr.

Thomas McMeekin, Sr., operator of the McMeekin Nursery and the McMeekin Construction Co., Pittsburgh, Pa., died March 10 of a heart ailment at his home at Wilkinsburg. He was 59 years old. Mr. McMeekin was employed by the I. W. Scott Seed Co. for 22 years before he and his sons, James and Thomas, formed the nursery and construction firms. He was a member of the former Western Pennsylvania Nurserymen's Association.

Besides his sons, he is survived by his widow, Mrs. Ellen McFadden McMeekin; a daughter, Mrs. Ellen Lucas; three sisters living in Belfast, Ireland, and a brother in New Zealand.

SAGINAW VALLEY MEETING

The Saginaw Valley Nurserymen's Association elected officers at its March meeting at Freeland, Mich. Robert Graham, Graham's Nursery, Freeland, was named president, and Gerald Kluck, Kluck's Nursery, Saginaw, vice-president. Mrs. Thelma M. Laetz, Laetz Hobby Farm Nursery, Bay City, was re-elected secretary, and George Ward, Ward's Lawn Service, Bay City, was re-named treasurer.

James Simmet, Luckhardt Nursery, Sebawaing, was elected a director for three years; John Vandermeer, Pontiac Mills, Inc., Pontiac, for two years, and Theodore R.

Laetz, Laetz Hobby Farm Nursery, and Donald Rice, Cass River Nurseries, Saginaw, for one year. Donald Rice was elected also to represent the Saginaw association at the board meetings of the Michigan Association of Nurserymen. The Saginaw association has requested the M. A. N. to accept it as a chapter. The association's aim is to work for more and better legislation in the state.

William Schmidt, Standard Oil Co., Saginaw, showed moving pictures of the work being done to help eradicate Dutch elm disease in Michigan. Eugene Wenzloff, nursery in-

spector for the area, gave a report on progress made in combating the disease.

James Simmet and Alex Meyer, Saginaw, were hosts to the group for the evening. The Saginaw association, which has 31 members, meets on the second Wednesday of each month at the Freeland Township hall. Each month two members of the association act as hosts and provide the evening's program.

Thelma M. Laetz, Sec'y.

H. J. BUSH has opened the H. J. Busha Nursery for retail trade at Toccoa, Ga.

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CLIMATOLOGY RESEARCH

Dr. Paul E. Waggoner has been named head of a new department of climatology at the Connecticut agricultural experiment station. Establishment of the new department on April 1 was authorized by the station board of control.

Dr. Waggoner, a station staff member since 1951, is a graduate of the institute of meteorology, University of Chicago, and received the degree of Ph.D. in agricultural climatology at Iowa State College. In the station's department of plant pathology and botany he has conducted research on microclimatology as it relates to spread of plant diseases and on the effect of atomic radiation on plant diseases.

For several years Dr. Waggoner has also taken part in the plant disease warning service for tobacco and potato growers. During his three years in the air force he was a weather forecaster.

In his new assignment, Dr. Waggoner will "do something about the weather" as it affects plant growth and farm crops. His study of local weather data is expected to give growers more exact information, for example, on the effect of climate on quality of food crops. Much remains to be learned also about the effect of climatic conditions on the spread of plant diseases and on the relation of weather to insect populations and their parasites.

TEN COMMANDMENTS

With his brief retail catalog, Albert Glass, of the Altavista Nurseries, Altavista, Va., offers advice to gardeners, including "ten commandments of plant care," from his humorous booklet, "Surgery with a Spade." While this little booklet of 16 pages, 4x6½ inches, is not so detailed as the usual pamphlets on planting care which nurserymen give to customers, the brevity and wit with which the advice is presented are likely to win it the desired attention, to the benefit of the plants sold.

NEW PENNSYLVANIA GROUP

More than 150 persons took part in an organizational meeting of the Indiana County Christmas Tree Growers' Association held in March at the Community Center building, Indiana, Pa. A temporary board of directors and temporary officers were elected to carry on activities until permanent officers and board members can be elected at a later date.

A. J. Stahura, Indiana, was elect-

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Welded Sash—

Only one on the market with watertight joints. No pre-assembling . . . no expensive labor costs.

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Combination condensation gutter, glass stop and socket-hinge arrangement. Dependably strong and sturdy.

Ridge—

Exceptionally strong, supports the roof bar, not vice versa. Designed with socket-hinge arrangement to permit attachment of either continuous roof glazing or ventilating sash . . . in any combination. Installed in conventional, proven manner.

***NO WOOD USED ANYWHERE**

Gable Rafter—

Extruded as one-piece section with same design features as roof bar. Generous overhang receives gable bars with maximum protection against water seepage, escape of warm air and drafts.

Roof Bar—

Most rigid bar developed (1½"x2¼" ins.). Provides great versatility for fastening anything to it without drilling or tapping. Bars have serrated bottoms to eliminate annoying secondary condensation and have ample gutters for primary condensation.

Door—

• All-aluminum door with aluminum door lock and stainless steel door hinges.

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Designed specifically to receive gable glass and make weather-tight connection at gable rafter junction.

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Superior glazing cap holds glass firm. Tightest method known; glass cannot move. Keeps in expensive fumigating gases, minimizes glass breakage and saves fuel. Metrolite glazing compound has indestructible asbestos fiber, guaranteeing lasting tightness. Same compound used in expensive Thermopane installations where lifetime performance and sealing qualities are essential.

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Completely fabricated - no cutting, notching, drilling or tapping

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ed temporary chairman; William S. Stephens, Dilltown, forestry representative on the executive committee of the Indiana county agricultural extension association, was elected temporary vice-chairman, and Sam Dible, Sam Dible Nursery, Shelocta, was named temporary secretary.

The principal aim of the group will be to encourage sale of Christmas trees grown in Indiana county.

MISS LIBERTY ROSE

A new red climbing rose, christened Miss Liberty and dedicated to world peace, was introduced in March by the Gardening Council. After seven years of testing, the Miss Liberty rose, with plant patent pending, has been found to be one of the most persistent everblooming varieties ever introduced.

A vigorous climber, reaching heights of from 10 to 12 feet, the Miss Liberty grows on long stiff stems and appears in huge clusters of semidouble 3½-inch flowers. The color is a lively Tyrian rose and is said to be nonfading. The fragrance is a moderate old rose. The leathery foliage of Miss Liberty is dark green, with the edges of the young leaves tinged in red.

Miss Liberty inherits its everblooming characteristics from its

FELINS BUNCH TYER

Automatically adjusts itself and ties any size bunch up to 10 ins. in circumference. Ties roses, glads, seedlings, flowers. Fast and efficient. Tying mechanism inverted so that dirt will not get into it, contributing to longer life.

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Milwaukee 16, Wis.

parents, New Dawn and World's Fair, and the Gardening Council believes that Miss Liberty will surpass them both in popularity in this country and will make a valued new member of the climbing rose family.

WALTER R. HOELSCHER has announced that he is discontinuing operation of the Westgate Nursery, 12000 Riverside drive, Powell, O.

MELVIN E. LEWIS, Santa Rosa, Calif., has purchased the Phillipsen Nursery, 5230 Redwood highway, north. The nursery will be called Mel & Lorrain's. Clyde Phillipsen, who with his wife operated the nursery from July 1, 1955, is in the real-estate business and found he was not able to handle both businesses.

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Some Interesting Observations On Container Nursery Stock

By Jens Ibrke

Regarding the growing of nursery stock in containers, most of the information available to us at this time has been obtained from growing evergreens.

There has been no program afoot in which any large quantities of shrubs, fruit trees, shade trees or roses have actually been grown from either a cutting or seedling or have been budded in the container. Growing this type of material in containers is too costly at this time, when we consider the prices we get for these products.

Since prices for nursery stock, especially those on the afore-mentioned items, have not increased proportionately with everything else the consumer buys, it is still necessary for this type of stock to be grown in nursery rows. The mature plants then are put in containers for merchandising.

There has been more money made by nurserymen on evergreens than on any other class of stock. The fact that this class of nursery stock did make more money prompted the finding of ways to produce it cheaper and increase profits still further. Container growing seemed to be the answer. Now, however, that we have used this medium to cut corners in production costs, we have also reduced the selling price. At the wholesale level today, one can purchase an 18 to 24-inch Pfitzer juniper in a 5-gallon container for \$1.85. This same Pfitzer juniper, balled and burlaped, lists for \$3.50. Why should a container plant of the same variety and size be worth only about half as much as a field-grown plant?

Profits No Greater

While we have learned how to produce a plant cheaper, we have not learned to keep our prices up, so that this cheaper production can increase our profits.

Growing in containers lessens the normal losses which every nursery expected in the handling and transplanting of evergreens. The elimina-

Talk on growing plants in containers given by L. C. (Jens) Ibrke, Mount Arbor Nurseries, Shenandoah, Ia., at the recent short course for nurserymen and arborists held at the Colorado A. and M. College, Fort Collins.

tion of these losses has added to production, and we are already over-producing on some items. This over-production will soon find us faced with surpluses, and when this day comes everyone will be cutting prices still further.

A point which has been brought to my attention repeatedly during the past year is the lack of uniformity in sizes of container stock. What is a 1-gallon tamariscifolia? The sizes will vary from a 6-inch plant to a 15-inch plant. What is a 5-gallon Pfitzer? The sizes will vary on these from 18 inches to one of 30 inches. The standards of grading as set up by the American Association of

Nurserymen have been completely ignored in the rush to get into the canned nursery stock business. The nursery industry as a whole has been built on pricing and selling its product according to the size of the plant, not the size of the container in which the plant is growing.

Trade Differentiation Due

Who should grow canned nursery stock? While there has never been a complete differentiation between a wholesaler and retailer in the nursery business, that is not true in other types of business. A manufacturer does not usually retail the product he manufactures. Retailing is the function of a retailer.

The use of canned nursery stock makes it quite evident that it is time for the nursery industry to start drawing a definite line between a wholesaler and a retailer. Since we know that canned nursery stock can be purchased cheaper than field-grown stock in certain items, the

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	2 1/2-in. 3-in.
2000 to 8000.....	\$18.75 \$24.35
10,000 to 48,000.....	17.50 22.85
50,000 to 148,000.....	16.30 21.35

4-in. ALUMIPOTS

	Per 1000
1000 to 9000.....	\$44.65
10,000 to 25,000.....	43.15
25,000 to 49,000.....	41.65
Over 50,000.....	40.15

2 1/2 and 3-in. Alumipots packed 2000 per case;
4-in. Alumipots packed 1000 per case.

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	Per 1000
1000 to 9000.....	\$40.10
10,000 to 24,000.....	38.15
25,000 to 49,000.....	36.95

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AGRICO FOR LAWNS—specially formulated with right elements, organic and inorganic, for correct lawn feeding. Just right for trees and shrubs, too.

AGRICO FOR GARDENS—A special formula, for flowers of greater beauty, vegetables richer in flavor, higher in minerals and vitamins.

AGRICO FOR BROADLEAF EVERGREENS—for exacting requirements of rhododendron, azaleas, andromeda and other acid-loving plants. Builds soil acidity and feeds plant correctly.

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Outstanding results in nursery use—good profits to nurserymen who offer them to their customers—sound reasons why these Agrico products are today's top favorites.

Cash in on America's most complete plant-food line—sell Agrico with nursery stock. Tie in with Agrico advertising—use Agrico ad helps. Order Agrico and Agrinite from nearest A.A.C. office, or write us today.

AGRINITE is the better (over 7% nitrogen) 100% organic plant food. High-grade nitrogenous tankage, not an animal manure or sewage by-product. Clean, odorless, won't burn. For all-season use. All convenient sizes.

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All convenient sizes—Complete directions on every bag.

30 FACTORIES AND SALES OFFICES IN U. S., CANADA, CUBA

wholesaler with his facilities for growing these plants in large quantities can sell the plant to the retailer cheaper than the retailer can grow it.

The retailer should put forth all his efforts toward getting the nurseryman's product to the ultimate consumer. The consumer of today is both package-minded and brand-minded, in addition to being accustomed to easy shopping. Millions of dollars are being spent in advertising to continue impressing upon the public the brand name and the package. This stimulates the impulse buying of the public when it sees the product properly displayed.

The nursery plant marts of today are in keeping with this type of merchandising. A modern, well-kept plant mart is an invitation to the prospective buyer to come in. There must also be a proper display made of the plants being offered for sale. The neat and generally good appearance which a display makes results in satisfying sales.

For Longer Life

One of America's leading consulting and marketing economists, Richard E. Snyder, Chicago, recently stated that the life expectancy of retailers in the United States is only six

THE GREATEST BOON TO GROWERS IN 100 YEARS — AMAZING NEW **VITALOAM** ORGANIC DOUBLE CULTURED SOIL REJUVENATOR

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REMEMBER—VITALOAM is BLACK and VELVET SOFT and ORGANIC. COMPLETELY CHANGES TEXTURE, PHYSICAL QUALITY and APPEARANCE of soil, yet cannot BURN OR HARM the TENDEREST PLANT OR SEED. Applied only ONCE a YEAR and NO fertilizer, peat, or FILTHY MANURE necessary. Already approved and in use BY HUNDREDS of leading greenhouses and nurseries throughout America. If your jobber cannot supply you, we will ship DIRECT. HERE ARE LOWEST WHOLESALE PRICES.

In 50-lb. Polyethylene-Lined
Printed Burlap Bags
2 to 3 bags \$6.00 ea.
4 to 9 bags 5.40 ea.
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SHIPMENTS OF 5,000 or more lbs. earn greatly reduced freight rates. IF CHECK IS SENT WITH ORDER, YOU MAY DEDUCT EIGHTY CENTS PER BAG AS FREIGHT ALLOWANCE.

NOTICE—We have openings for jobbers in several states. If interested, address **ALBERT D. PIFER, 133 Wilson, Lancaster, Ohio.**

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years. The two major explanations for these business failures are, first, not knowing the true cost of doing business, and second, the lack of inventory control. These two explanations were also pointed out as reasons in some businesses for the shrinking ratio between sales and profits.

The nursery plant marts are here to stay and will see further development as a sales outlet in years to come. With the further development of these outlets for nursery

stock, the successful operator will have, first, secured better prices for his product and increased the ratio between sales and profits; second, found out his true cost of doing business, and third, set up an effective inventory control.

THOMAS G. TROXEL, JR., new owner of the Peeden Nursery, Yucaipa, Calif., is a graduate of Northwestern University, Evanston, Ill., where he studied landscaping.

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Less water Less trouble
No clogging



Actual installation of Monarch Foggers in propagation cutting bed. Foggers are installed on standpipes, 3 to 4 feet above cutting beds and 3 to 4 feet apart.

- Keeps beds moist without excessive water.
- Uses as little as one gallon per hour at usual water pressures.
- Mineral deposits will not clog orifice.

Monarch Foggers

\$1.75 each, postpaid
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FOGGER CAPACITIES
Gallons Water per Hour

Orifice No.	Spray Angle Degrees	Pounds Pressure		
		25	60	100
2.00	80 or 120	1.0	1.6	2.0
6.46	160	3.2	5.0	6.4

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Seminar and Tours Held in New York

In a seminar of science and industry in horticulture held at Statler Hall, Cornell University, Ithaca, N. Y., March 23 and 24, problems arising from regulatory procedures in the various states were highlighted in a panel discussion the first day. In addition, inspection officials and research workers told of current concerns and projects.

The seminar was held at the request of New York state nurserymen, the invitation to the meeting being given through the director of extension and the department of floriculture and ornamental horticulture at the New York state college of agriculture.

Daniel J. Carey, commissioner of agriculture for the state of New York, gave the introductory address, pointing out the size and interstate nature of the present-day nursery business. He stated that his department desired to work with the industry not only to improve regulatory matters, but to promote civic planning.

Program Participants

Further emphasis to the interstate nature of the business was given by Richard P. White, executive vice-president of the American Association of Nurserymen. Valteau C. Curtis, Callicoon, N. Y., director of A. A. N. region I, was chairman of the opening session and introduced Phil Alampi, secretary of agriculture for the state of New Jersey and president of the American Horticultural Council, as chairman of the discussion panel on the activities of regulatory officials.

Other participants in the seminar included C. A. Boyer, chief, bureau of plant industry, state of Michigan; Frank Soraci, chief, bureau of entomology, state of New Jersey; Carl Lumry, manager, mail-order sales and service, Mount Arbor Nurseries, Shenandoah, Ia., and R. L. Holmes, production manager, Jackson & Perkins Co., Newark, N. Y.

Protection of the industry within the state against the introduction of insect pests and diseases foreign to the state or such part of it as is judged free of the pest or disease in question was given as the primary purpose of the regulatory work. However, the activities of the regulatory officials are defined by law, it was pointed out, and the laws of individual states differ. The value of open discussion of regulatory prob-



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Plants cling to it, Redwood
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lems was strongly emphasized and it was deemed desirable for nurserymen to take the initiative in asking representatives of regional and sectional plant boards to keep the trade up to date on the practical and scientific areas of their problems.

Control Work Described

A tour of research at Cornell University was held the first afternoon of the seminar, and in the evening, after a fellowship dinner, the group met for another discussion period, under the chairmanship of Dr. L. H. MacDaniels. Dr. Richmond, of the United States Department of Agriculture, crops regulatory program, showed color slides of various pests and their work. Others spoke on the gypsy moth, western tent caterpillar and nematodes. The difficulties in inspecting plants for nematodes were stressed.

Dr. Colmer, speaking from the viewpoint of the national plant board, emphasized the problem of importation of pests through air travel from countries to the south. The citrus pest situation is considered critical in Florida and California, where growers wish to keep their groves clean. The nematode problem is growing, he said. The imported fire ant was named as likely to become of national importance, with the movement of B&B stock as a contributory factor in its spread. The Kapra beetle and the white-fringed beetle were other dangerous pests cited.

An initial survey of marketing trends in the northeast was given by Peter Chapogus, Cornell University, who declared that ornamental plants are still in the luxury bracket and the mass market has not yet been exploited.

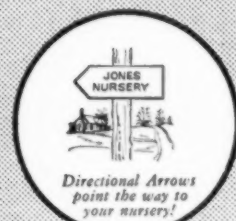
Research Viewed

A visit to the agricultural experiment station at Geneva opened the second day's program. Work in progress on soil treatment for European chafer control was shown by Prof. Foster Gambrell. Interest was expressed in methods of applying granular formulations of DDT. Current phases of the apple-breeding program were explained to the group by Dr. R. C. Lamb. Dr. R. M. Gilmer told of the methods used for indexing plants for freedom from specific virus diseases.

Maynard Du Rei, of the Gardening Council, led a brief tour that included demonstration of the use of International Business Machine equipment in handling orders, tags and sales and inventory data. The Gardening Council was luncheon host to the seminar at the Newark

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Mr. Herman, like other progressive nurserymen, knows that when you tell what you sell, you sell **MORE!**

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Country Club, where demonstrations of applied research being conducted by the council were explained by Donald Vanderbrook.

Tour Nurseries

Tour of several local nurseries followed the demonstrations and concluded the seminar. New cold-storage facilities at the establishment of the Jackson & Perkins Co. were viewed. Roses under storage at 34 degrees appeared in excellent condition. Rose plants were being individually checked by a department of agriculture inspector as they passed on a conveyor belt during the process of grading prior to packaging and shipment.

A visit was also made to the storage and packing division of the C. W. Stuart Co. There a load of nursery stock that had just arrived for processing and storage was being checked by an inspector. The group next saw an exhibit of A. A. N. grades for roses and other shrubs set up for reference in the grading room. Virtually all jobs in labeling and handling stock are mechanized. Plants are handled under number, and the storage area is laid out in blocks and sub-blocks. Stock is handled in open crates by lift hoist for easy sorting and moving. Floors were clean concrete and buildings and equipment were well painted. New structures were of steel and cinder block.

George Kirscher, production engineer, showed a development in packaging of container-grown stock. Cartons were intercut to fold at critical points, blocking the movement of the containers in the package. Filling of orders along speed-away tracks from local bins under bright fluorescent light kept a string of light boxes on the move toward the checking, resorting and shipping department. It is the aim to reach a peak of 9,000 orders a day at the height of the present shipping season, it was said.

SPRING FLOWER SHOWS

[Continued from page 9]

This attractive formal garden, pictured in an accompanying illustration, had a low, stone wall around a wide border of Indica azaleas, ilex and ivy. Flagstones were used at the rear of the garden to back a white garden ornament.

Second prize in the small garden class went to Hirt's Strongville Greenhouses, Strongville. Squares of stones bordered beds of Purity azaleas, Albino and Golden Harvest tulips and some Japanese and Eng-



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lish holly. Japanese andromedas, English ivy and Pachysandra terminalis were the greens that brought out the beautiful colors of the yellow and white flowers. Honorable mention was awarded to C. H. Perkins & Son, Westlake, for a garden of chrysanthemums.

Circus Roses Featured

An outstanding garden, not entered in the competition, was produced through the efforts of the local growers' association. Used in it were more than 200 bushes of the new Circus rose. The plants were forced by Fred Schneider & Sons Co., Rocky River, and were obtained from Melvin Wyant, rose specialist, Mentor. A formal planting at the entrance to the hall had red and white tulips around a pool in which there were water lilies. A background of white azaleas, lilacs and dogwood was further backed by huge red pine trees. This garden also was by the growers' association.

NEW ENGLAND SHOW

The New England spring flower show (the 85th) was opened March 11 for a 7-day run by Mrs. Christian Herter, wife of Massachusetts' governor, in the Mechanics building, Boston, Mass. She was met by Seth Kelsey, chairman of exhibits, who escorted her and her party on a tour of the show.

A garden, by Cherry Hill Nurseries, West Newbury, featured a flagstone terrace and fireplace, with the upper terrace enclosed in a taxus hedge. The entrance was designed with Azalea kaempferi and a mass of rhododendrons and tall hemlocks and birches. A gold medal and first prize were awarded to this exhibit.

A woodland setting by Old Colony Landscape Service, Weymouth, was heavily massed with rhododendrons and azaleas, with a woodland pool, tall dogwoods and narcissi. This beautiful display received a silver medal and first prize.

Alpine Garden

An alpine garden with huge ledges, waterfalls and pools, by Alexander I. Heimlich, Woburn, featured innumerable alpine plants. Included were dwarf trees, shrubs and miniature bulbs. This display was awarded a first prize and gold medal.

Bay State Nurseries, Inc., North Abington, staged a seaside planting, complete with a seaside cottage, lobster shed and all its implements, sea sand, sea shells and seaweed in profusion. Dusty miller plants were seen growing in the sand together with



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shrubs that withstand ocean spray. This unique exhibit was awarded a first prize and gold medal.

Norumbega Nursery, Inc., Weston, was awarded a first prize and gold medal for a woodland terrace scene arranged with dogwood, azaleas, tulips and narcissi. There were also a small pool and waterfall. This restful scene was created by Arthur Leiby.

The highlight of the Grand hall was the return of the famous Stone acacias. Running through a huge forest of acacias was a tumbling waterfall, with a pool. This breathtak-

ing exhibit, by Mr. and Mrs. Robert G. Stone, Marion, was awarded first prize, a gold medal and the New York gold medal for the most beautiful exhibit in the show.

Southern Garden

The mammoth stage in Grand hall was decorated by Weston Nurseries, Inc., Weston, under the direction of Frank W. Sellner. This year a southern garden was staged, with both an upper and lower boxwood garden. There were in profusion magnolias, hollies, rhododendrons and azaleas. The southern mansion was perfect in



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perspective. There were two huge, spouting fountains in the foreground emptying into a pool in which were two live black swans. The foreground consisted of a boxwood design, with azaleas. This outstanding exhibit was awarded the president's cup for the most meritorious exhibit in the show.

To the left of the stage, a naturalistic garden was created by the Kelsey Highlands Nursery, East Boxford, depicting a restful, quiet, woodland scene. Huge pines and hardy low azaleas were featured; a first prize and gold medal were awarded to this entry.

Another display in the Grand hall that received a first prize and gold medal was one by Bartlett Gardens, Hamilton. This garden had a wooden shed and a patio bordered with lilacs, forsythias and Viburnum carlesii in bloom.

The Arnold Arboretum had an interesting educational display that demonstrated various methods for propagating plants and trees. The exhibit won a gold medal and first prize.

NEW YORK SHOW

Spring made a colorful and spectacular debut against a backdrop of gray, rainy weather at the 39th International flower show, staged at the Wanamaker Show Palace, New York, March 11 to 17.

Opening-day crowds, on hand for the ceremonies and anxious to view the exhibition gardens and floral displays on three separate floors, circled the block-long show building five deep. Total attendance for the 7-day show was about on par with the totals recorded in previous years.

Gardens on Three Acres

Sixteen gardens, covering three acres, comprised the primary exhibit on the main floor. Several of the prize-winning gardens stressed modern design and functional use of the garden as an outdoor living area. A modern patio garden, on two levels, designed for outdoor living and easy maintenance, won the gold medal award of the Horticultural Society of New York for the best commercial garden in the show, for Landscape Associates, Brookville, L. I., and Dalsimer, Inc., Cedarhurst. The raised, weathered brick terrace in the garden was edged with redwood planking at the left. The living area on the right was planted on three sides with Japanese andromedas, rhododendrons and pines, with a large white birch tree in the extreme right corner balanced by a large pink dogwood at the entrance

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to the terrace, which held a small rectangular pool planted with water lilies.

Brookside Nurseries, Darien, Conn., was awarded two trophies for its contemporary garden. One, the Charles H. Totty memorial medal, was for forcing outstanding delphinium and tuberous begonias, and the other, from the New York Florists' Club, was for the finest garden in the 1,000 square foot class. The garden featured a background of rhododendron and mountain laurel underplanted with ground covers. It was divided into two main areas, with the one at the left featuring a circular gravel plot that held an abstract piece of statuary backed by rhododendrons with the latest varieties of tuberous begonias in the foreground. A larger circular area of gravel at the right was designed for outdoor living and was backed by beds of hybrid delphinium and tuberous begonias, following the curve of the gravel area. The two areas were connected by a border of rhododendrons, white astilbes and delphinium in the rear of the overall design.

Daybreak Nurseries, Inc., Westport, Conn., was given the gold medal of the Massachusetts Horticultural Society for a southern garden that accented pink and white.

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Setting for the garden was the facade of a southern home, with a striped awning covering a brick and flagstone terrace. A large, white antique fountain was at the right of the terrace, with a foreground planting of white azaleas and deep purple tulips. An apple tree at the left was underplanted with light and deep pink camellias. A dogwood at the right completed the design.

Grecian Rose Garden

In addition to winning a gold medal award, Jackson & Perkins Co., Newark, N. Y., also was the recipient of a new trophy, the Frank H. Traendly trophy, for an outstanding rose garden and excellence in rose culture. The firm's exhibit was a Grecian rose garden designed in the

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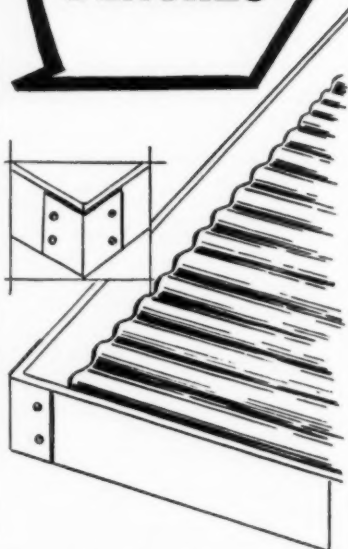
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classical manner, with simple curves and straight lines; to illustrate the best use of roses, several plants of one variety were grouped to obtain a solid splash of color. Antique Grecian statuary set off beds of the firm's new rose varieties, Spartan and Golden Fleece, with crushed marble paths lined with boxwood. For height and variety, tree roses of Spartan and Golden Fleece were used. A row of cedars forming the background completed the illusion of an ancient Greek garden.

The same firm entered a garden in the smaller class, the Betsy McCall rose garden designed for children, which featured the new rose of that name.

Towpath Gardens, West Hartford, Conn., received the Lambert C. Bobbink trophy for its exhibit, which captured the spirit of old New England with a naturalistic garden, also awarded a gold medal. A weathered mill facade, with water wheel, waterfall and old millstones, was at the left, with a large pine in the foreground and clumps of daffodils for color. The right side of the pool adjoining the water wheel was raised to simulate a hill, with a twisted apple tree in the foreground and native deciduous and evergreen plants used to good effect.

Smaller Gardens

In the 500 square foot category, the silver trophy of the International flower show was awarded to Panfield Corp. Nurseries, Huntington, L. I., for a May garden that featured pink and white tulips and azaleas. This semiformal garden had a sheltered bench as a focal point, with the turf area centered by a metal statue and a circular bed of white tulips. Boxwood was used to accent the entrance to the turf area and at either side of the shelter. Beds of white tulips were on the left; masses of white and pink azaleas on the right were backed by Japanese andromedas. Two dogwood trees were used at the right, one in the foreground and another slightly to the right of the shelter. Beds of tulips at the left of the entrance were edged with daphne and alyssums.

In the small garden class, 300 square feet or less, Daybreak Nurseries, Inc., won the International flower show chairman's trophy for a small spring garden accenting white and pink. The garden was a corner planting, done in semiformal design. It featured as a focal point an antique stone well planted on either side with rhododendrons, with white azaleas in the foreground. A small bed of red tulips at the right provided a

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sharp color contrast. The entrance to the garden was emphasized by two specimen boxwood plants.

In the same competition, Madsen & Christensen, Flowers & Greenhouses, Ltd., Wood-Ridge, N. J., was given special awards for the best use of fencing and pools in a garden. The semiformal garden for the small suburban home was on two levels, with the upper level, backed by a sapling fence, holding a kidney-shaped pool. The background planting consisted of pink and white dogwood trees, with corkscrew willow trees used at the extreme ends of the fencing. A slightly curved bed of white and red azaleas in combination with ilex was in the foreground of the flowering trees.

Julius Roehrs, Inc., Rutherford, N. J., was given a special certificate for a lush tropical garden set around authentic ruins from Indochina. The garden was designed to simulate a humid tropical forest, with each of the plant materials identified. Daurenheim, Inc., Wantagh, L. I. used a background of holly and hardy ferns to emphasize the color of a wide variety of azaleas arranged in informal groupings.

CONNECTICUT FLOWER SHOW

The increasing popularity and importance of outdoor living areas as an integral part of the suburban home garden plot were once again reflected and emphasized at the 10th annual Connecticut flower show, staged at the West Hartford armory, West Hartford, March 8 to 14. Despite snow and sleet which limited attendance on opening day, officials of the show announced that the turnout for the 7-day event equaled last year's record-breaking total.

Farmington Nurseries & Tree Experts, Avon, were awarded the gold medal of the Connecticut Horticultural Society in addition to the William Savitt trophy for the best commercial display in the show for a naturalistic hillside planting, entitled "The Pasture." A small brook ran from a craggy hillside which was planted with an apple tree, azaleas, clumps of spring bulbs and native plants.

Modern garden design was stressed by Scott's Nurseries, Bloomfield, with azaleas, dogwood, a golden chain tree, taxus and daphne planted around a free-form terrace and pool enclosed by a red brick wall.

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lighted the exhibit of Mount Philip's Nursery, Weatogue. Evergreens were used as a background for this specialized garden, with flowering shrubs and tulip beds surrounding the play area.

Terrace Gardens

Brouwer-Hutt Nurseries, Glastonbury, emphasized outdoor living with a spring terrace garden which overlooked an informal lawn area. Broad-leaved evergreens backed the terrace, with clusters of flowering bulbs used for color accents in the design.

A corner garden was designed and planted by Ludwig Hoffman Nurs-

ery, Bloomfield. The background for the garden was planted in evergreens with flowering cherry trees and specimen shrubs for emphasis. The foreground of the design featured colorful spring bulbs.

A corner terrace garden, with a fountain for a focal accent, was planted with evergreen and deciduous shrubs and trees by Gillette & Son, West Simsbury. Splashes of color were provided by early spring bulbs.

On a paved patio, just off the facade of a modern cottage, Towpath Gardens, West Hartford, used specimen evergreens, shrubs and trees

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in combination with flowering bulbs. A red brick patio terrace highlighted the exhibit of Garden Mart, Bloomfield, with broad-leaved evergreens and dogwood the major plant materials.

Nurserymen among the local trade persons responsible for staging the show were William Vittner, Vittner's Gardens, Manchester; Peter J. Cascio, the Peter Cascio Nursery, West Hartford, and Arthur C. Bird, Sr., the Bristol Nurseries, Inc., Bristol. The Connecticut Nurserymen's Association cooperated as one of the sponsoring groups of the show.

PHILADELPHIA SHOW

Flowering dogwood was the horticultural star at this year's Philadelphia flower show. The show, the city's 29th such annual affair, was held March 12 to 17 at the Commercial Museum. The main feature of the show, which covered about four acres in all, was an aisle of gardens—in each of which the flowering dogwood was given special prominence—flanking the display's main aisle.

Four yards, each 20 feet square, were arranged with the notion of outdoor living in mind. Exhibitors were Stanley Leighton, of White-marsh Nursery, Plymouth Meeting; Allan Davis, of Allan Davis Nursery, Media; Hansen Bros., Narberth, and a horticultural foundation of Swarthmore College.

Two 20x40-foot suburban garden settings attracted attention. The first, by Justus Grebe, of the John Albrecht Nurseries, Narberth, used azaleas and geraniums around a terrace. The other was designed by L. Ben Palmer, of Rose Valley Nurseries, Media, and featured a variety of shrubs growing on curving slopes.

Two larger suburban gardens—each 20x60 feet—also were on display in the garden section. Styer's Nurseries, Concordville, used new azaleas in its garden. Notable were some bright yellow hybrids. The garden landscaped by Joseph Morris, of DeKalb Nurseries, Norristown, was a fresh-looking combination of blue, yellow and white flowers, with Dutch iris and a profusion of primroses growing by a wistaria-covered arbor.

A corner of a country garden was a charming sight. It was set up by William Frederick, of Millcreek Nursery, Newark, Del., and used azaleas and Virginia bluebells that gave way to wilder plantings of pine and native dogwood.

Albert F. W. Vick, Vick's Wild-gardens, Gladwyne, set up a striking 3,000 square foot scene in the center

aisle. It was a reconstruction of what might be seen along an old Indian trail.

The Conard-Pyle Co., West Grove, set up a rose garden covering 1,000 square feet.

CALIFORNIA SHOW

Balmy, spring weather, with the temperature in the 70's, favored the opening of the seventh annual presentation of the California international flower show March 17. The show, staged at Hollywood park, Inglewood, ran through March 25. Continued fair weather was expected to bring total attendance for the 9-day show close to the 200,000 mark, according to the general manager, William A. Rodman.

Polynesian Garden

A beautiful Polynesian garden by Evans & Reeves Nurseries, Los Angeles, won the gold medal in the nursery division, as well as the highest award for landscape design in the show. Occupying the most prominent location in the show, directly across from the main entrance, this 100 foot wide exhibit featured a Polynesian home and lanai in the modern manner, extending over a deep reflection pool. Lush tropical foliage, tree-high ferns, palms and gingers predominated as background for occasional splashes of color in strelitzias and clivias, reflected in the dark pool. Two 5-foot-high Polynesian gods, hand-carved from the trunks of fern trees, were interesting in the background; in one corner were low plantings of bromeliads and a collection of species orchids.

Hawaiian hula dancers and singers drew crowds to a large Hawaiian garden exhibit by Germain's, Inc. The barefoot girls, dressed in their native costumes, performed outside a Hawaiian grass hut; nearby were tall posts, racks of colorful leis, unpeeled coconuts, pineapples and other typical island decorations. A log bridge, over a pool supplied by a waterfall, approached the hut and the stage for the entertainers. Rich foliage and flowering plants, many imported from Hawaii, included many varieties of gingers, heliconias, tree ferns and large plantings of colorful caladiums.

Roy F. Wilcox & Co., Montebello, winner of the second award for a horticultural exhibit, again had a beautifully landscaped garden displaying many of its azaleas in bloom, massed for color gradations against a forest background, with real trees blending against the painted background.

Australian trees and shrubs were

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featured in a large, 8,000 square foot exhibit by the educational committee of the show. The 1956 Olympic games, to be held at Melbourne, Australia, provided the theme for this large, simply landscaped showing of scores of Australian ornamentals, many of which are typical of southern California gardens, also. Among them were the decorative eucalyptus, Australian tea tree, the dainty bottle brush tree, tree ferns, bird cherry shrubbery and many others.

Armstrong Nurseries, Inc., Ontario, had a large and unusual garden built around a black-and-white

Oriental teahouse. In the foreground, plots of polished black pebbles seen against sifted white sand carried out the predominantly black-and-white theme. Brilliant contrast was provided by a cluster of hybrid clivias at one side and again in flame-red floor cushions beside a low table on the lanai. Tropical foliage and flowering azaleas in the nearby gardens grew near a low waterfall and pool.

Simple elegance characterized the long but shallow garden display of R. W. Smith Co., Pasadena. Behind a lawn and a garden walk, hundreds of flowering azaleas and a few rhodo-

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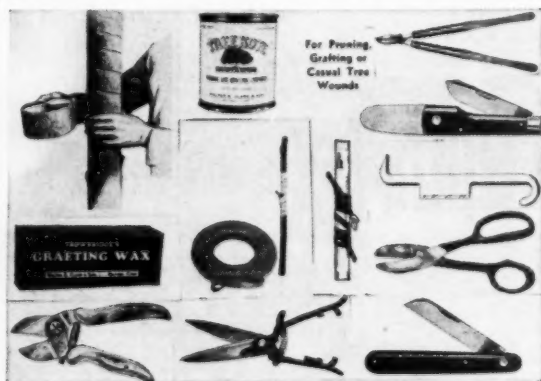
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dendrons were grouped against an interesting tile fence. Long-necked iron cranes stood near ultramodern garden furniture, an occasional large boulder and interesting plots of gray-tufted grass. At the far end of this long exhibit were a garden pool and patio, adjoining an outdoor barbecue and smartly furnished indoor kitchen.

Henry C. Soto Corp., Los Angeles, had a well-landscaped garden lanai, about 60 feet wide, with low, free-form plantings of green plants and dwarf cinerarias grouped for color.

"Living on Cloud Nine," an exhibit by Rosedale Nurseries, Monrovia, had a flying saucer theme in modernistic garden table tops at various heights as well as in the patio flooring of concrete rounds, as background for masses of flowering azaleas, tree ferns and specimen foliage plants.

A large collection of its flowering polyantha roses was displayed by H. A. Conklin Wholesale Roses in an attractive garden exhibit.

A charming exhibit featuring flowers that might be found in any home garden, by Howard & Smith, Inc., Montebello, showed clivias and cinerarias against a background of camellia trees.

The Los Angeles chapter of the California Association of Nurserymen had a large exhibit of colorful, well-labeled bedding plants around a walk, with espaliered shrubbery in the background.

Completely different was the small, culturally correct Japanese garden by K. H. Nishi & Son, West Los Angeles. A tiny waterfall poured from the spout of a ceramic urn, hanging from a tree trunk in this garden of miniatures. Dwarf pines and junipers were background shrubs, with flowering azaleas for color.

Mossholder Nursery, Corona Del Mar, had an interesting corner display of small tree azaleas in pots, with a border of white-flowering plants in the foreground and pastel colors in the background.

A brilliant display of double gerberas in many hues, by Toichi Domoto Nursery, Hayward, was designed by C. Jaques Hahn.

General chairman of the show was Manfred Meyberg, of Germain's, Inc. Tom Edwards, of Roy F. Wilcox & Co., and F. C. Tomlinson headed the nursery and pot plant section.

SIDNEY L. KING, West Valley, Calif., has established a landscape gardening service in the area, under the name of Western Gardens.

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BARBERRY PERMITS

Nurserymen and dealers who plan to ship barberry and mahonia stock interstate should make application for such authority by May 15, according to R. O. Bulger, leader of the barberry eradication project, Minneapolis, Minn. Current authorizations will expire September 30, 1956.

Application forms will be sent to all the firms that are currently authorized to ship barberry and mahonia stock interstate. If any nurseryman or dealer whose name does not appear on the current list desires to make application, he should write to: Plant Pest Control Branch, Agricultural Research Service, 35 South Fifth street, Minneapolis 2, Minn.

The provisions of the black stem rust quarantine, No. 38, require that growers and dealers who ship barberry and mahonia stock interstate must obtain the necessary authority for such shipments. Authorizations are issued only after determination is made that all barberry plants in the nursery are true to type and are of species and varieties approved for interstate shipment. Certain species and varieties of barberry and mahonia are the alternate host of the

stem-rust fungus, which attacks wheat, oats, barley and rye. The nursery inspection work is part of the program to prevent the re-establishment of the barberry in the eradication states.

CELEBRATE 20th YEAR

The Country Way Nursery, Hingham, Mass., this month entered its 20th year in business. The retail nursery and landscape service, operated by Ruth and Guy Mellgren,

serves the south shore area of Boston, Mass.

The nursery grounds have been landscaped to take advantage of the beauty of the natural setting, with its rocky ledges, cedars and a pond, and to display plant materials growing in their natural environment. The charm of the Country Way landscape attracts color camera enthusiasts as well as affords pleasure to the general public. The narcissi especially are an attraction of which the owners are proud.

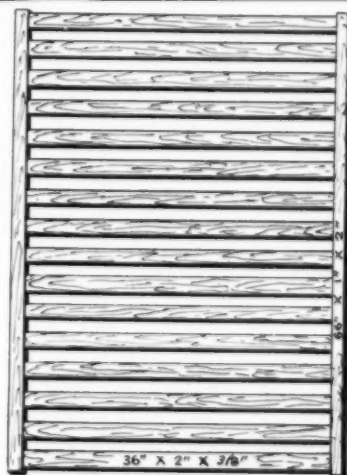
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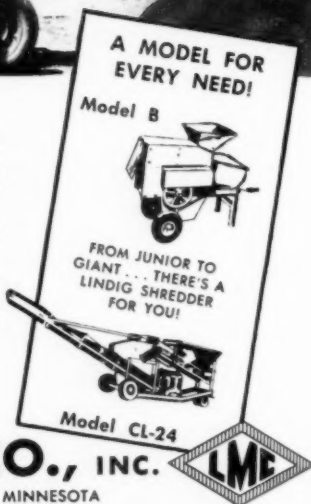
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Propagation Meet In New Hampshire

By Lawrence A. Dougherty

The 1-day propagation meeting held at the University of New Hampshire, Durham, on March 29, was attended by a small but interested group of nurserymen. Dr. A. F. Yeager, head of the department of horticulture, outlined the day's program and presented a general discussion on propagation.

Basic Principles

He mentioned some of the basic principles that nurserymen and plant breeders should keep in mind, including seed storage and germination. He showed specimens of Korean chestnut hybrid seeds kept in polyethylene under refrigeration and discussed some of the variations in germination temperatures. Apple seeds, he pointed out, germinate on a cake of ice, but, of course need higher temperatures for proper growth of the seedlings.

The speaker indicated that a mixture of sand and sphagnum moss made a good germinating medium and that plants such as blueberry seedlings could be held for some time in the medium without injury.

Vegetative Propagation

Prof. E. B. Risley discussed vegetative propagation and mentioned some of the variations in root formation from cutting materials. He also noted some of the advantages of leaf bud cuttings over stem cuttings. It was pointed out that, although the callus is a hopeful sign of rooting, it is not essential because roots do not normally form in callus tissue.

Professor Risley mentioned the importance of the period or stage of growth during which cutting material is taken. Lilac cuttings taken from the time plants start to bloom to about the end of the blooming period seem to root best. Rooted cuttings of *Malus robusta*, in experiments by Eggert and Barnaby, rooted about 85 per cent in March, but only 5 per cent in April. The age of the plant also is important. Cuttings of many kinds of trees root best when taken from trees not over 4 years old; this is true in the case of apple trees. Professor Risley said that young top growth in many cases does not root so well as more mature wood. He added that nondormant cuttings root best when a good leaf surface is maintained, indicating it is a good practice to leave as many leaves on the cuttings as possible. In

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doing this, it is important to prevent wilting, and that is where the use of polyethylene and mist proves useful. The maintenance of maximum turgidity also is important in obtaining good rooting.

Little research has been done on the effect of the intensity and the duration of light on the rooting of cuttings, Professor Risley said. In general, increased light hastens rooting, but increased heat, if excessive, reduces photosynthesis. Shading holds down the temperature, but reduces the amount of light needed for good cutting growth. The speaker stated that the maintenance of bottom heat at about 5 degrees above the temperature for good top growth is desirable. The importance of keeping the rooting medium loose enough for good aeration was stressed, but in doing this it is also necessary to prevent the medium from drying out. Some plant materials, continued Professor Risley, can be rooted in an amazingly short period. He stated that he had rooted willows in the spring in three days and had rooted monarda in six days at a temperature of 52 to 55 degrees Fahrenheit.

Propagating Structures

Prof. Russell Eggert, discussing propagating structures, said that a roof pitch of 65 degrees is good from the standpoint of light, but is not practical for heating. In the New England climate, a 35 to 40-degree angle is satisfactory. He said that some of the plastics have given better light transmission than glass. The initial cost of plastic houses, he continued, may run from 10 to 17 per cent of the conventional house. Some of the advantages cited were: (1) Lower initial construction costs; (2) lower assessment rates; (3) ability to convert the house to a cloth-type house in summer; (4) less overhead, which is especially important when the house is to be used only for a short period during the year, and (5) conservative heating costs, especially where a double plastic wall is used. Some of the disadvantages mentioned were more rapid depreciation and greater difficulty in ventilating and moisture control.

New University Addition

Professor Eggert said the university recently had obtained bids on an addition to its greenhouse range, measuring 35 x 43 feet 8 inches. The total cost will be \$8,639, including heating pipes. The speaker compared this figure to recent figures on a plastic-type house 18 x 84 feet. The cost of the plastic was \$39 and the frame cost \$289. These figures were

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Ernest Colprit told of his experience in using a propagating house covered with plastic-impregnated wire screening. The walls lasted four to five years and the top lasted three years.

Propagating Medium

Professor Eggert related that a mixture of one-half fine gravel and one-half peat gave good results for him. The Boyce Thompson Institute, according to the speaker, reported that 90 out of 96 species rooted well

in such a mixture. He said that this mixture has been especially good in rooting blueberries. Sawdust also has been successful in rooting some cuttings, but it is important to remove the cuttings as soon as rooted.

Prof. W. W. Smith, also of the university staff, in charge of the work on apple stocks and blueberries, covered the subject of grafting and budding. He discussed the various Malling apple rootstocks. He said that Malling No. 9 is one of the best rootstocks for maximum dwarfing for the back-yard garden planting, but that the unions are brittle and the trees need support. The



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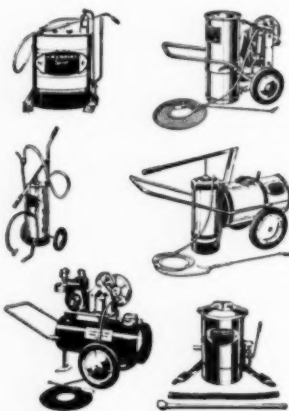
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Malus robusta stock has proved hardy and compatible for many varieties, but it is not a dwarfing stock. Ottawa 524 has proved semidwarfing and cold resistant. Professor Smith expressed interest in sikkimensis rootstocks for apples. The seeds produce stock about 99 per cent apomictic (genetically alike). The seeds came from a tree at the Arnold Arboretum, Boston, and originated in India. The problem has been one of obtaining propagating stock that will fruit at an early age. Professor Smith hopes that grafting on dwarf rootstocks may produce earlier-fruiting trees for providing seeds.

Dr. Smith indicated that the subject of rootstocks is a complex one and that some varieties will do well on one rootstock, but the same stock may be unsatisfactory for another variety. Variety, compatibility, hardiness, dwarfness, cost, availability, disease, earliness of bearing and vigor—all are factors in rootstock selection. Viruses in some rootstocks is another complicating factor.

SHADE TREE CONFERENCE

[Continued from page 14]

lapse photography will be used where applicable to the type of scenes pictured. Arrangements have been made for the production of the film by John Ott, John Ott Pictures, Inc., Winnetka, Ill., an organization which has attained outstanding success in the production of films of this type. It is to be financed by donations from arborists and other persons interested in publicizing approved tree care practices.

Funds for Film

Norman Armstrong, arborist, Chapel Hill, N. C., and O. J. Andersen, strongly urged support of the project, and requested pledges of donations from those present. Although relatively few members were present at this session, the sum of \$450 was pledged, and Mr. Andersen announced that he would contact all

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members of the Southern chapter in the near future in an effort to obtain additional funds.

As an added feature to the business session, the film, "Landscape for Living," was shown. This excellent film was produced by the American Association of Nurserymen and depicts the values of ornamental plantings around the home. The film received much favorable comment.

It was announced that the next meeting of the Southern chapter of the National Shade Tree Conference will be held in March, 1957, at Houston, Tex.

Promptly at 10 o'clock, Monday morning, the conference was formally declared in session by President Harry C. Scott, arborist, Lookout Mountain, Tenn. The first speaker on the program was Henry Orr, of the department of horticulture, Alabama Polytechnic Institute, Auburn, Ala., who discussed "Functional Pruning for Eye Appeal." Stating that the term "usable" might be substituted for "functional," Mr. Orr said pruning of this type was intended to make the tree fit better into its surroundings and to enhance its beauty. If a tree could not be pruned without destroying its characteristic shape and beauty, he advised, it should be removed completely and replaced with one of a species better adapted to the site conditions.

Faulty Pruning

Mr. Orr deplored practices of topping trees in such manner that branch stubs remain. The effects of pruning of this type, he pointed out, could be seen frequently in trees under or closely adjacent to overhead public utility lines. These stubs, he asserted, spoil the appearance of the tree and result in the development of broom-like branch growth from the adventitious buds below the cut end of the stub, and, he added, the cut end of the stub remains as an open wound through which the tree may become infected with wood-decaying fungi which can cause heart rot and ultimate death of the tree.

When side pruning is necessary to prevent interference with service lines, Mr. Orr recommended pruning the entire tree to maintain symmetrical balance. He also suggested that frequently it was advisable to thin the crown somewhat at the time of side pruning.

Maintenance of clearance around wires that pass through the crown of a tree was described as being an expensive type of pruning. It must be done carefully, Mr. Orr emphasized, to avoid unsightliness. In all pruning he advised cutting branches

with ROSEMAN TILLER-RAKE

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Scarifies . . . Tills . . . and Pulverizes as well as Levels . . . Spreads . . . Finish Rakes.

The Roseman Tiller-Rake is a heavy-duty multi-purpose tool that combines several soil-working actions in one.

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Over 300 Roseman Tiller-Rakes are in use by landscape men and nurserymen in the area where first introduced.

Hand-pitch control wheel positions the tool for scarifying, spreading or finish raking.

Front two rows of tines equipped with pointed shovels for scarifying purposes.

Rear cross members form grading blade for spreading. Standard equipment. No extra charge.

Finger-teeth rake bar on rear row assures smooth, even finish raking for the perfect seedbed.



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back to laterals, using good judgment in selecting limbs to be removed, making pruning cuts flush and parallel with the stem and painting all cuts with approved wound-dressing material.

Replacement Planting

Under certain circumstances, Mr. Orr said, "pruning for eye appeal means cutting the tree at ground level." This may be done when the tree is no longer an object of beauty and is in such condition that it cannot be improved in appearance through normal arboricultural prac-

tices. Replacement planting usually is undertaken, he said, and in such work great care should be used in the selection of species that will be most suitable for use under the conditions prevailing at the planting site. Choice of species, he said, should be based on such factors as size of tree at maturity, root expanse and growth habits, susceptibility to insect and disease attack, flowering and fruiting habits and susceptibility to storm injury. Mr. Orr suggested that more than one species be used in street or roadside plantings to minimize the danger of complete tree loss in the

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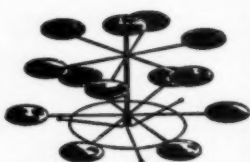
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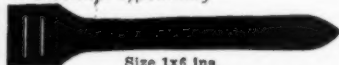
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Also sell FERTO-POTTED plants to gardeners
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2 1/2-in. pots	2.75	5.00
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Manures, Peats, Tankage, Bone.
Organic 5-1-5; 5-10-10, etc.

ALLEN CO. PITTSBOWN 3, N. J.
Since 1915

event of an infectious disease or in-
sect infestation.

Generally desirable small, medium
and large trees were suggested by
Mr. Orr. Recommended small-
growing trees included redbud, flow-
ering dogwood (*Cornus florida*),
varieties of the smaller-growing
maples, Yaupon holly, southern wax
myrtle, Carolina laurel, glossy privet,
Japanese snowball, hornbeam and
Chinese elm (*U. parviflora*). For
medium-size trees he suggested Nor-
way maple, silverbell, sourwood,
scarlet oak and winged elm; for large
trees, sugar maple, hackberry, gink-
go, tulip tree, white pine, southern
magnolia, willow oak and red oak.

Public Relations Talk

In his discussion of "Public Rela-
tions," Sam Brewster, director of
buildings and grounds, Alabama
Polytechnic Institute, Auburn, Ala.,
said that "with most folks a tree is
more than just a tree," that it may
be esteemed for sentimental reasons
that give it a value far in excess of
its worth for shade, beauty or any
other attribute. "It has been said,"
he stated, "that you may be able to
persuade a man to let you run a road
through his house, possibly through
his barn, but never through his or-
chard."

Utility companies, public officials
and other persons who, in their field
of work, must deal with owners of
trees should "operate on the theory
that the customer is always right,"
Mr. Brewster asserted. The develop-
ment of the high-speed highways and
the increasing use of automobiles
have forced the widening of many
streets and roads, he said, and this
often necessitates the removal of
roadside trees planted 50 or more
years ago. "These should be removed
only as a last resort," he warned, and
added that the owners of the land
on which the trees stand should al-
ways be contacted before pruning or
removal operations are started.

Where utility wires are involved
Mr. Brewster recommended that all
other possibilities for installation,
even that of underground lines, be
exhausted before seriously consider-
ing the removal of interfering trees.
"provided," he said, "you are in-
terested in maintaining good public
relations. If trees often are cut need-
lessly, even the largest of utility com-
panies can be hurt by the resulting
amount of adverse criticism."

Adaptable Southern Plants

With "Southern Plants Adaptable
to the Rest of the United States" as
his subject, Fred Galle, director of
horticulture at the Ida Cason Gar-

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WHICH—FOR YOU, THIS SPRING?

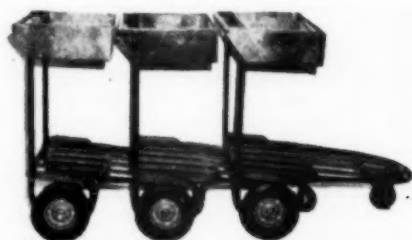
THIS ? OR CUSTOMER SELF-SERVICE?



Even if you do RUN all through the spring business, some customers will walk out unserved unless they can serve themselves. Give them *Easy-Rolling Carts*—smooth, hard walks—good, clear signs—packaged plants; then RELAX, as you check them out!

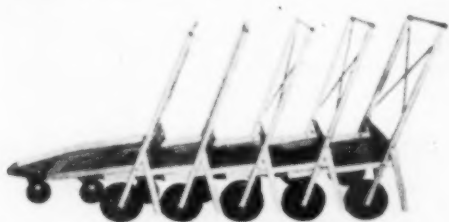
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Capacity, 400 lbs. Price, \$59.75.
Color, green.

MODEL A-L folds for storage. Patent applied for.



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Color, Silver-Tan.

(Prices are F.O.B. Berkeley, Calif.)

Customers are now using both these carts in nurseries from coast to coast. They like waiting on themselves, and why not? They're the same people who do so all year long in their supermarkets! They just won't stand around, waiting for service.

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dens, Chipley, Ga., described a number of varieties of holly, azaleas and other ornamentals. He used color slides to illustrate his remarks. Varieties of holly and azaleas suggested for general use included *I. verticillata*, *I. decidua*, *I. latifolia*, Piedmont Flame azaleas and plum-leaved azalea. Dr. Galle also suggested that such ornamentals as sourwood, aralia, cornelian cherry, Chinese dogwood, fringe tree, bottle-brush buckeye and oak-leaved hydrangea could well be used in landscape plantings in many sections of the country, because of their natural beauty.

W. F. Kriegner, of the United States Treasury Department, Chattanooga, Tenn., spoke briefly on "Appraisals for the Internal Revenue Bureau." Losses resulting from sudden storms, lightning and similar "acts of God" are deductible, he said, but the amount allowable is generally equal to the difference between the total market value of the property immediately before and after the loss occurred. However, he said, each case was considered on its own merits, and often the actual cost of replacing damaged trees or other ornamental plantings was given full consideration in arriving at an amount which could be deducted for

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51C Rain Jet covers area 5-ft. wide and 40-ft. long. No mist or fog. Ideal for parkways and between buildings.

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Each head does the work of 5, saves user 50% on installation cost! Even distribution and low angle of discharge prevents puddling and run-off. Max. efficiency at low pressures (25 lbs.). It's the world's finest sprinkler!

**395 ea.
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All Heads Available on Portable Stands
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HAND TRUCKS

Especially built for handling B&B nursery material. Are built in three sizes, with capacity up to 1500 lbs.

Illustrated is our small model truck. One man can easily handle 600-lb. ball.

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5 Different Types that Have Sold and Been Used Successfully

Freight Prepaid or Full Freight Allowed—You Know Your Cost Price with These Delivered Prices!

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VIRGIN POTTING SOIL

(Special for African Violet and House Plants)
1 qt. Plastic Bag 36 36 lbs. \$0.12 \$4.32
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SCIENTIFIC COMPOST ACTIVATOR—
Millions of essential soil bacteria per gram—Aids composting raw leaves, etc. Activates and deodorizes hotbeds—Deodorizes outdoor toilet—Activates dead soil.

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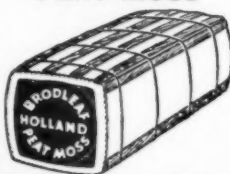
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income tax purposes. In such cases, he advised that all data pertaining to the loss be obtained and presented, including photographs and appraisals by a competent arborist and a real estate appraiser.

Brush Control

"Chemical Means of Brush Control" was discussed by Stephen Pugh, forester of the Southern Bell Telephone Co., Atlanta, Ga. In outlining the history of the use of chemicals to control shrubby growth, Mr. Pugh said his company began this type of work about 1942, using some of the first chemicals that appeared on the market. In early applications, he said, injury often was caused to nearby field crops, but materials and methods of today are highly successful. He recommended that materials of low volatility be used and applied to foliage, branches and trunk in sufficient quantities to wet all surfaces thoroughly. Basal applications may be needed as a follow-up measure, he said, in which case stronger solutions should be used.

Herbicidal materials applied to the soil in the root zone by means of a probe or needle also produced good results, Mr. Pugh remarked, and added that applications with helicopter had been tried, but that so far the results had not been satisfactory. In treating right-of-way strips he advised: (1) The area must be transformed to herbaceous plants; (2) the herbicidal chemical must be selected according to the susceptibility of the plant species involved and the solution must be of the proper concentration, and (3) in spraying, the plants must be thoroughly covered. He warned that operators must be thoroughly familiar with the chemical materials used, with the various techniques of application and with the damage that might result from any form of carelessness in handling or applying the materials.

Salesmanship

An excellent inspirational address was given by Ray Slagle, insurance agent of Chattanooga, Tenn., on the subject "The Three R's of Salesmanship." He asserted that arborists, in selling their services to tree owners, had an opportunity to stress the romantic appeal of trees that ought to make selling an easy job. "Good restaurateurs sell their customers on the 'sizzle' in their steaks," he said. "Arborists should do likewise and emphasize the 'sizzle' in tree work."

He listed and explained three important factors of salesmanship: (1) See the people; (2) make the sales talk brief and to the point, and (3)

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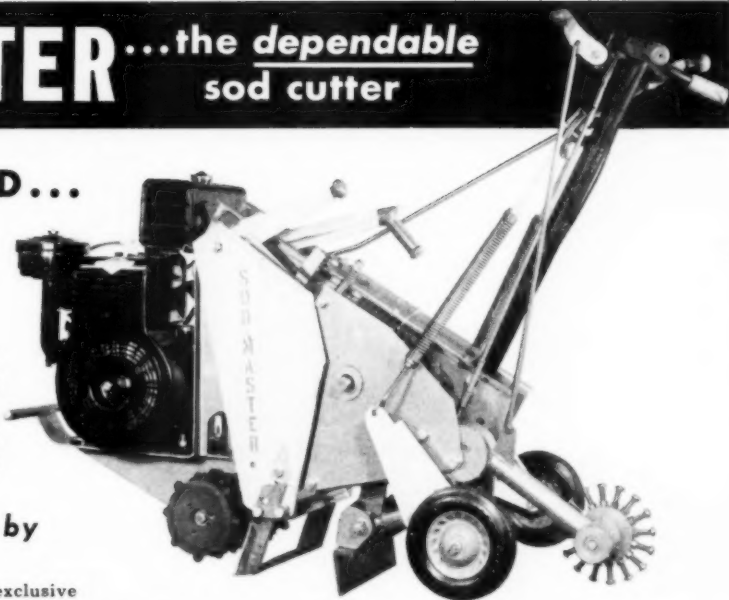
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SOD-MASTER is the most rugged, efficient and dependable machine of its kind. Users have reported cutting up to a *million* yards of sod with their machine still in good working condition! The exclusive eccentric cutting knife action cuts sod *cleanly*... leaving no ragged edges. *One man* merely guides this dependable machine. SOD-MASTER does the work!

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SEND FOR COMPLETE INFORMATION AND LOCATION OF YOUR NEAREST DEALER



- Eccentric cutting knife cuts sod cleaner.
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One man cuts up to 1000 sq. yards per hour with ease!



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offer a choice of two services. In arborists' sales contacts he advised stressing the beauty of trees, the value they add to a home and the need for caring for them properly. Then, he said, after the sale is made "be sure you give the best of service, for in so doing you are building a reputation for yourself that will bring you constantly more business." In closing a sale, he said, "Don't ask 'if', ask 'which?'" This, Mr. Sagle explained, is one of the most important rules of good salesmanship—that a sale nearly always is made if a prospective client is given a chance to choose one of two or more commodities or services offered.

Increase in Tree Service

"Consider the Tree" was the subject of a paper presented by Paul E. Tilford, executive secretary of National Arborist Association, Inc., Wooster, O. Stating that about \$250,000,000 is spent annually on tree care work in the United States, Dr. Tilford said the demand for competent tree service is increasing. Increasingly these demands are coming from owners of small properties, he said, and he predicted that the trend for the arborist would be fewer big jobs, but many more smaller ones from many people.

English Type RAIL and HURDLE FENCE



2, 3, 4 or 5 Rail.
Can be painted or allowed to age naturally without cost for upkeep. SCREEN TYPE PICKET FENCE shown in alternate issue.

**PROFITS For Nurserymen!
YOU SELL FENCE
We Carry Inventory
ALL TYPES—From large Estates to Small Homesites.
FOR LONG LIFE—Entire Fence—(both posts and rails) treated with nationally known—
PENTA PRESERVATIVE**

WOOD PRODUCTS CO., Toledo, Ohio

Arborists should prepare themselves to meet more adequately the business demands and opportunities of the future, Dr. Tilford said. He offered the following suggestions: (1) Maintain high standards in business operation and keep abreast of new developments in arboriculture; (2) improve quality of labor through training programs for personnel; (3) promote and encourage research work pertaining to shade trees and

ornamentals at established plant research institutions; (4) promote and encourage the planting of tree species adapted to site conditions, and (5) cooperate to the fullest extent possible with other arborists.

In speaking of the contributions that trees make to our way of life, Dr. Tilford cited recent tests made in New York city to determine the effectiveness of trees in screening out atmospheric impurities. On the

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Quickly opened; come completely assembled.
Rapidly filled; faster than small pots one at a time.

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Made of decay-resisting veneer for longer life.
No wilting checks after transplanting.

Ideal to pack for the small plant shipper.

Make swell dozen-plant units in Ball PLAN-

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Bands packed in valuable greenhouse flats at

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Size	Shipping Units of	0 to 4000	5000 to 10,000	11,000 to 25,000	26,000 to 50,000	51,000 to 100,000	101,000 and up
1 3/4 x 1 3/4 x 2	2000	\$5.55	\$5.30	\$5.10	\$4.90	\$4.70	\$4.50
1 3/4 x 1 3/4 x 2 1/2	2000	5.95	5.70	5.45	5.20	5.00	4.80
2 x 2 x 2	2000	5.75	5.50	5.25	5.05	4.85	4.65
2 x 2 x 2 1/2	2000	6.40	6.10	5.85	5.60	5.40	5.20
2 x 2 x 3	2000	6.65	6.35	6.10	5.85	5.60	5.40
2 1/2 x 2 1/2 x 2 1/2	2000	6.90	6.60	6.30	6.05	5.80	5.60
2 1/2 x 2 1/2 x 3	2000	7.20	6.85	6.60	6.30	6.05	5.80
3 x 3 x 3	1000	7.80	7.45	7.10	6.85	6.55	6.30
3 x 3 x 4	1000	8.65	8.25	7.90	7.55	7.25	7.00
4 x 4 x 3	1000	8.65	8.25	7.90	7.55	7.25	7.00
4 x 4 x 4	1000	9.45	9.05	8.65	8.30	7.95	7.65

BALL VENEER PLANTRAYS

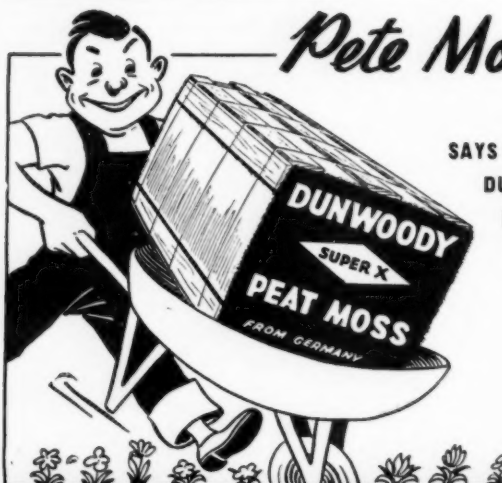
PRICE PER 1000 IN QUANTITIES AS SHOWN BELOW

Size	Shipping Units of	0 to 375	375 to 975	975 to 2450	2450 to 9950	10,000 to 19,950	20,000 and up
No. 1-R. (holds 12 1 3/4 x 2 1/2 bands)...	125 to 250	\$46.30	\$44.20	\$42.30	\$40.60	\$39.00	\$37.50
No. 2-R. (holds 12 2 x 2 1/2 bands)...	125 to 250	49.40	47.20	45.20	43.30	41.60	40.10
No. 3-R. (holds 12 2 1/2 x 2 1/2 bands)...	125 to 250	56.00	53.50	51.20	49.10	47.20	45.40
No. 2-X (holds 12 2 x 2 1/2 bands)...	125	61.40	58.70	56.20	53.90	51.70	49.80
No. 3-X (holds 12 2 1/2 x 2 1/2 bands)...	125	69.70	66.60	63.70	61.10	58.70	56.50
No. 4-X (holds 12 3 x 3 bands)...	125	76.60	73.20	70.00	67.20	64.50	62.10
No. 1-S (holds 25 1 3/4 x 2 bands)...	125	52.40	50.00	47.90	45.90	44.10	42.40
No. 2-S (holds 25 2 x 2 bands)...	125	56.90	54.40	52.10	49.90	48.00	46.10

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downwind side of trees, he said, the air was found to contain as much as 75 per cent less dust and soot than was present in the atmosphere on the opposite side. Trees also reduce sun glare around the home, he remarked, tend to keep the house cooler in the summer months, are major items in landscaping and serve man in many other ways. "The future of any product for which there is real need is bright," Dr. Tilford emphasized, "and there is a real need for trees. There will be, too, an increasing need for skilled tree service organizations."

Tree Diseases

With "The Status of Oak Wilt and Other Tree Diseases" as his subject, Marvin Fowler, pathologist, U. S. Forest Service, Washington, D. C., stated in his opening remarks that disease is now the major cause of loss of the forest resources of this nation. He pointed out that diseases are publicized only when they become of epidemic proportions; many diseases, he said, are highly destructive, but escape public notice because they are not spectacular in their action. He cited chestnut blight, white-pine blister rust, birch dieback, the Dutch elm disease, oak wilt and the little leaf disease of pines as examples of highly publicized and extremely destructive tree diseases.

The oak wilt disease, caused by a fungus, is still active and spreading from county to county in the 18 states in which it is known to be present, Dr. Fowler said. It is rated as one of the important diseases of forest trees because of the value of its host trees, the large amount of timber loss it has caused and the difficulties involved in applying control measures.

Oak Wilt Spread

Oak wilt is known to spread from diseased to healthy oaks in two different ways—locally, through natural root grafts underground, and long distance jumps of from several hundred yards to a mile or more, through some means as yet undetermined, although several species of insects are under suspicion. With reference to spread of the disease through root grafts, Dr. Fowler said it had been found that grafting between the roots of red oak species and those of the white oak group occurred much more frequently than previously believed.

It has been found, too, he said, beetles emerging from diseased wood may carry the fungus on their bodies even when no fungus mats have formed on the infected tree; insects that feed on the mats that often form, however, are still suspected as being

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the principal carriers of the disease.

Symptoms of the disease include sudden wilting and tan to bronze discoloration of the foliage, dropping of the leaves which may occur in any color stage of the foliage and usually quick death of infected trees. Diseased trees in the red oak group generally lose all their leaves within a few weeks after the appearance of the first symptoms and die the same season; those in the white oak group may live for several years, dying progressively from the top downward.

Oak Wilt Control

Present recommended control measures consist of isolating the infected oak by deeply trenching around it, cutting all roots in the process, then felling the tree and burning the wood. Poisoning oaks surrounding the diseased tree as a substitute for trenching has been used as a control method with some success, although it has been found, Dr. Fowler said, that the poison apparently travels slowly through the roots as indicated by sprout growth that frequently develops around treated trees.

Research on the disease is continuing, Dr. Fowler stated. Still to be solved are such problems as: How does the disease move through the roots? What insects, if any, act as carriers of the fungus? Can the fungus live in both living and dead roots? What chemical compound can be used that will kill treated trees including their roots? Until these and similar problems are solved and positive control methods determined, oak wilt will remain a serious disease and a potential threat to the oak forests of the nation, Dr. Fowler said.

City Tree Problems

"Heart Rot Troubles and City Trees" was discussed by Ray Hirt, pathologist of the New York State College of Forestry, Syracuse, N. Y. Heart rot is caused by a number of fungi, Dr. Hirt explained, but the result is the same—affected trees become hollow and dangerous. Trees with narrow-angled crotches, maple and elm especially, are most susceptible to heart rot, he said, and should be inspected frequently for evidence of decay. "Local arborists," he said, "as citizens of the community, should be concerned about decaying trees in parks, playgrounds and along streets, should report dangerous trees to the proper officials and should insist on good work being done on publicly owned trees." City-owned trees, he stated, are frequently neglected through ignorance or false

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economy. Using color slides to illustrate his comments, Dr. Hirt described a number of fungi that cause heart rot and their effects upon trees.

In "The Human Side of Tree Diseases," a paper presented by Noel B. Wysong, chief forester of the forest preserve district of Cook county, Illinois, the ways in which various classes of people influence a tree disease control program were discussed. The technical aspects of control lie within the province of scientists, he said, while the actual application of control measures is the responsibility of arborists. Whether or not the pro-

gram can be carried out successfully depends upon public recognition of the situation and acceptance of advocated control measures, he asserted. To obtain public support of the control measures, he advocated a well-organized and sustained program of factual publicity through such mediums as the newspapers, radio, television and community meetings.

FLOWERWOOD NURSERY, 1501 South Post Oak road, Houston, Tex., was recently opened. Jerry Baggett is manager.

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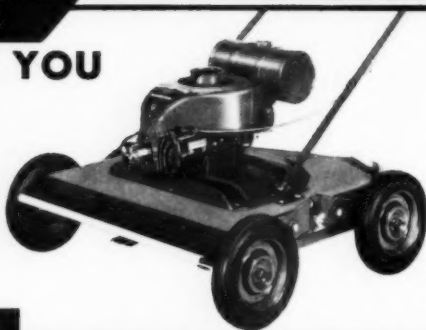
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BOOK REVIEWS

GROUND COVER PLANTS

What he has done in his previous books for trees and for shrubs and vines, Dr. Donald Wyman does now in "Ground Cover Plants" for those species of low-growing woody plants and perennials that are suitable to cover bare spots in sun or shade. This book of 175 pages, just published by the Macmillan Co., at \$4.75, is a thorough reference work on this subject.

After opening chapters on the uses, hardiness, planting, general maintenance, winter protection, pruning and propagation of ground cover plants, the author presents 20 lists of them for special purposes. The latter half of the book is devoted to an alphabetical treatment of the plants; about each are given data as to height, hardiness zone, flowers, foliage, fruit and autumn color if important, habitat and propagation.

Over 200 plants are included, so that the character of ground cover types is quite varied. The testing of the subjects for that purpose at the Arnold Arboretum, where Dr. Wyman is horticulturist, has enabled him to present authoritative information that makes this book a valuable addition to the reference shelf.

PINKS AND DIANTHUS

The recent spread of interest in pinks and the introduction of new named varieties — there are about 200 of current usage registered — in England has naturally led to the publication of a book devoted solely to this branch of the dianthus genus. "Pinks: Selection and Cultivation" is by F. R. McQuown, president of the British National Carnation Society and editor of the Pinks Register, who has long been a grower of these flowers as a hobby.

He asserts that, while pinks are among the easiest plants to grow, they differ from the usual garden flowers in some requirements, and his advice is directed to meeting their peculiar needs. This he presents well in this little book of 175 pages. All phases of growing and propagation are discussed, and two final chapters are devoted to breeding. Published in Great Britain, the book is distributed in this country by Charles T. Branford Co., at \$3.

The same firm distributes in the United States the fourth edition of that inclusive volume, "Carnations,

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Pinks and All Dianthus," by Montague C. Allwood, at \$6.50, long recognized as the fullest treatment of these plants by a famed authority.

AMERICAN ROSE ANNUAL

The variety of contents of the 1955 American Rose Annual, recently received, makes comment difficult except at considerable length, but it may be said that it is as interesting a compilation as its predecessors, from the 20-page description of a tour among "Roses in Western Europe: 1955" to the "Proof of the Pudding," that regular feature including brief appraisal of varieties by members of the American Rose Society.

Hybridizing, fragrance, soil fertility, fungicides for black spot, growing roses in difficult climates and a dozen other topics are interestingly discussed.

The 261-page book is illustrated with 18 plates, 12 of them of new roses in color. It is again capably edited by Dr. Fred J. Nesbit and gives members of the A. R. S. a great deal for the annual fee of \$4.50. The headquarters of the American Rose Society are at 4048 Roselca place, Columbus 18, O.

PLANT PROPAGATION

For the amateur gardener who wishes information and instruction on the different ways to increase plants, a new book of English origin fills the bill completely. This is "Plant Propagation and Garden Practice," by R. C. M. Wright, a British gardening authority, published in this country at \$4.50 by Criterion Books, Inc., which reports that it has been edited by a prominent American horticulturist to conform to gardening conditions in the United States.

Details of the various methods of propagation are fully covered in this book of 192 pages, illustrated by 100 photographs taken by the author. This might be found a work of reference for the experienced and expert propagator, in regard to the treatment of particular plants under alpine, aquatic and other categories. It supplies just what the beginner desires to learn about propagation.

NATURE GUIDES

Two additions to the popular and inexpensive (\$1.95) Golden Nature Guides published by Simon & Schuster are "Flowers: A Guide to Familiar American Wild Flowers"

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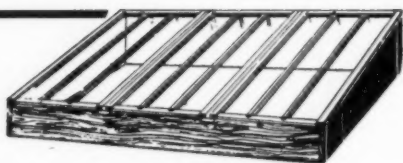
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HALPERN BROS.
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and "Insects: A Guide to Familiar American Insects," both of 157 pages, 4x6 inches.

The former reproduces 134 full-color paintings and describes briefly 260 wild flowers of 45 plant families. The latter reproduces 16 paintings in color showing 225 different species of insects.

They are both handy and authoritative books for the layman who knows little of these subjects and wants no technical information, only identification. Author of both is Dr. Herbert S. Zim, of the University of Illinois; co-author of the book on flowers is Dr. Alexander C. Martin and of the book on insects is Dr. Clarence Cottam. Rudolph Freund illustrated the former; James Gordon Irving, the latter.

HERBS

Herb gardening has become of such interest that such enthusiasts will welcome "Garden Spice and Wild Pot-Herbs," by Dr. Walter C. Muensch, emeritus professor of botany at Cornell University, who for 25 years has grown and studied such plants. In the preparation of the book he had the assistance of Dr. Myron A. Rice, of Yale University.

Printed in large boldface type and illustrated by 56 wood engravings by Elfriede Abbe, this book of 211 pages, 9½x11 inches, published by the Cornell University Press, at \$5.75, is a library showpiece as well as a horticultural reference work.

Each species and variety of herb is described as a plant; then the culinary uses are described; the methods of propagation are outlined, and some historical comments are occasionally added. It is an entertaining as well as an informative book.

FORUM ON SOIL BANK

"Soil bank won't work if all the farmers don't accept it." Overheard at a recent meeting of farmers from Indiana county, Pa., this remark seemed to express the opinion of those present at an open discussion forum February 24, at the Suncrest Evergreen Nurseries, Homer City, Pa., one of a series of discussion groups being conducted by John P. Saylor, Republican representative from Pennsylvania's 22nd congressional district.

Providing an unusual opportunity for small farmers to give their opinions on soil bank directly to their representative in the federal government, this farmer's forum at Suncrest

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PENNSYLVANIA E. C. Geiger, North Wales, Pa.
Verscharen's Garden Centers, Rt. 51, Brentwood, Pittsburgh, Pa.
Rt. 88, S. Park, Pittsburgh, Pa.
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MICHIGAN William Bell, 4002 Montgomery Ave., Detroit, Mich.
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Strickland Seed Store, 1429 Gratiot Ave., Detroit, Mich.
RHODE ISLAND American-Dutch Trading Co., Inc., P. O. Box 177, Cranston 10, R. I.
CANADA The Sheridan Nurseries, Ltd., Sheridan, Ontario, Canada.

pointed up the fact that Indiana county farmers are primarily interested in how soil bank will affect the nation as a whole. While presenting a varied picture as to the effect of current proposals on them individually, the general assumption was that the program would be beneficial only if it were accepted by all the farmers in every section.

SNOW PROBLEM

The heavy snowstorms which, news reports indicated, smothered sections of New England late in March were particularly severe in their effects on nursery establishments, according to word from E. D. Robinson, nursery sales agent at Wallingford, Conn. Most nurserymen in those localities affected were not able to make an early start on digging and shipping this season because of the excessive snowfall, Mr. Robinson adds.

BALTIMORE PLANTING

Planting 1,000 or more flowering crab trees a year at Baltimore, Md., is the long-term project being sponsored by the city's Women's Civic League, as reported in the April issue of "Nurserymen's News" of the

Maryland Nurserymen's Association. R. Brooke Maxwell, chairman of the board of state forests and parks and director of the department of recreation and parks of Baltimore, originated the project and has a plan for planting the trees in parks, on highways approaching the city and around city-owned property such as hospitals and schools. The Women's Civic League will work to enlist the support of local garden clubs, civic groups and business firms in the project.

JAMES E. WEIS, 438 North Michael street, St. Marys, Pa., is starting a nursery and plans to grow ornamentals for retail sale.

STANLEY B. MITCHELL, who until last spring did only landscape work, at that time started a cash-and-carry business also, and this endeavor is now operated as Huron Gardens, eight and one-half miles west of Bad Axe, Mich., on Route 53.

OPENED recently by T. Mahan Smith was the new garden center of Dix Nursery & Garden Center, Jefferson City, Mo. Specializing in landscaping, the firm stocks a large selection of shrubs, trees and plants, including a full line of container-grown plants and garden supplies.

Merry Tiller-Tractor

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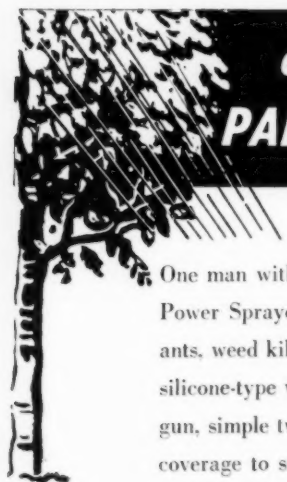
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DEALER INQUIRIES INVITED

ERNEST F. THALMAN, proprietor of North Shore Landscaping, 200 Happ Road, Northfield, Ill., has bought four acres on Waukegan road, at the southern limits of Northfield. The building which formerly housed a night club will be remodeled for a garden center.



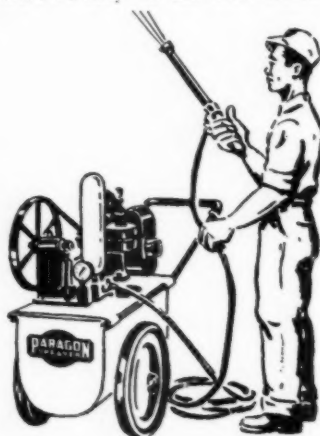
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One man with this compact (16½" wide) 12-gal. Paragon Power Sprayer can *effectively* spray insecticides, disinfectants, weed killers, herbicides, whitewash, water-base paints, silicone-type waterproofing solutions. With latest-type spray gun, simple twist changes spray pattern from mist for wide coverage to small stream up to 25 feet high to reach high limbs, barn rafters or distant rows. Comes with 15-ft. hose.

Pump: never submerged . . . piston-type . . . rugged . . . No pulsation! Steel ceramic-lined cylinder. **Agitator:** double-bladed . . . keeps solution mixed . . . cleans strainer at every pump stroke. **Working Pressure:** adjustable to 150 lbs. **Tank:** rust-protected . . . easy to fill and clean. **Power:** 1½-HP 4-cycle gasoline engine.

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NEW BULLETINS

TREE DISEASES

Tree diseases and their control are discussed in Circular 46, a 104-page illustrated bulletin released by the natural history survey division of the state department of registration and education of Illinois, Urbana, written by Dr. J. Cedric Carter, who is in charge of plant disease work at the Illinois state biological research agency. The circular deals with Illinois trees and their diseases, both rare and common, covering infectious and noninfectious disease agents; types of tree diseases including leaf, stem, vascular and root types; methods for determining the nature of particular disease and what tools can be used in the process; procedure and materials for tree therapy, including spray materials, feeding, watering, pruning, sanitation and wound treatment, and resistance and immunity. The pamphlet lists 22 trees, tells the particular diseases which affect each and mentions identifying symptoms. Noted are a number of Illinois trees which are comparatively free of diseases. The circular has 94 illustrations, the majority of which are detail photographs illustrating evidences of diseases in trees. Single copies of the circular are available without cost to Illinois residents from the Illinois Natural History Survey at Urbana.

STRAWBERRY PESTS

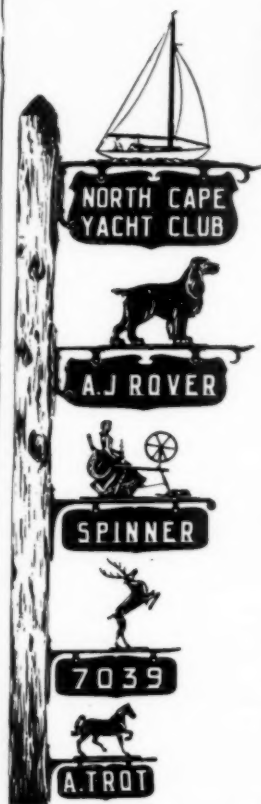
In research bulletin No. 763, titled "Insect Pests of Strawberries in Ohio," recently issued by the Ohio agricultural experiment station, Wooster, Ralph B. Neiswander, the author, has included the results of recent investigations by the department of entomology on some of the more troublesome pests. The subject is one of importance, because strawberries are the fourth most valuable fruit crop in Ohio, the annual farm income from berries alone sometimes exceeding \$1,500,000.

The bulletin, consisting of 32 pages, provides descriptive notes and control measures for the pests. Nine pages are given to remarks on the strawberry leaf roller, ranked as the most prevalent problem. Discussed next are the two strawberry rootworms most frequently found—in the adult form being known as the strawberry leaf beetle and the grape colaspis. Following are comments on strawberry crown borer, white grub,

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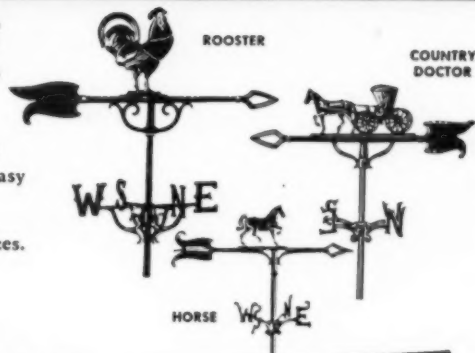
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spittle bug and the 2-spotted spider mite. A group of 10 strawberry pests of minor importance in Ohio are covered in the concluding pages.

Valuable additions to the text are several large-size reproductions of drawings of the pests and of photographs of their depredations. A list of reference books is also given.

NURSERY INVENTORY

Nurseries which grow large quantities of seedling trees such as government nurseries produce may find instructive the 64-page pamphlet "Inventory of Nursery Stock," which describes the methods and findings of the Ontario department of lands and forests. It describes methods of sampling and estimating seedlings in beds and frames. It is research report 33, issued by the division of research of the Ontario government department.

ROSE HANDBOOK

In two handbooks recently published by the Brooklyn Botanic Garden, the average amateur can learn how to grow fine roses, and his wife, how to arrange them beautifully for the house.

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Roses," edited by a well-known amateur rosarian, Richard Thomson, covers all aspects of growing roses. Featured subjects are culture of the rose, winter care, roses for the seashore, roses for the south,

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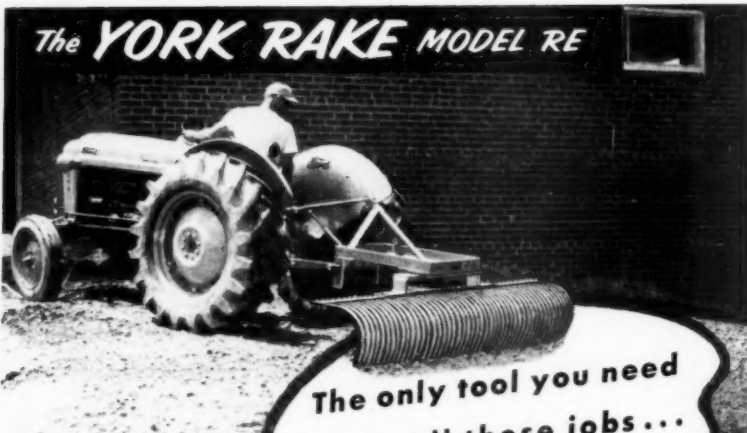
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pruning, contemporary varieties, climbers, species roses, etc. One useful section is devoted to full and half-page pictures suggesting various ways in which roses can be used in home plantings. Nearly 100 pho-

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tographs and drawings illustrate the text.

In the "Handbook on Flower Arrangement," of 64 pages, Marion Feddersen has gathered a collection of articles by some of the top flower arrangers in the country, devoted to the background and techniques of flower arranging.

These handbooks are special printings of the quarterly of the Brooklyn Botanic Garden, Brooklyn 25, N. Y. The "Handbook on Roses" is available at \$1 and the "Handbook on Flower Arrangement" at 75 cents postpaid.

AIR POLLUTION EFFECTS

A short review of observations and results of work done at Boyce Thompson Institute for Plant Research, Inc., Yonkers, N. Y., in testing effects on plants of gas and vapors involved in air pollution is given in a 22-page reprint of a paper by P. W. Zimmerman, of the institute, presented at the governor's conference and exhibit on atmospheric pollution, held at Trenton, N. J., in February, 1952. The paper, "Chemicals Involved in Air Pollution and Their Effects upon Vegetation," describes controlled experiments with commonly met air impurities and the resulting plant damage. Tables illustrating comparative susceptibility of different species of plants to hydrofluoric acid gas are included.

PLANTS FOR DRY AREAS

An extensive bibliography and a lengthy list of drought-resistant plants is contained in the 99 planographed pages, 8x11 inches, of a report resulting from the drought-resistance studies undertaken by the department of landscape management, University of California, Davis, under a grant from the California Foundation for Horticultural Research during the past year.

The report is designed as a preliminary study toward finding ornamental plants suitable for growing in the central valley of California with little or no summer irrigation. These plants should prove useful in roadside beautification, in erosion control and as screens and windbreaks.

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